



电子元器件系列 (中国.厦门)

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POWER BIPOLAR TRANSISTORS

HORIZONTAL DEFLECTION FOR CTVS & MONITORS

Part Number	V _{CEO} (V)	V _{CBO} (V)	I _C (A)	P _{tot} (W)	Package	Colour TV (screen size)	Monitor
							(size / type)
BUL310FP	500	1000	5	36	TO-220FP	14"	-
BUL312FP	500	1150	5	36	TO-220FP	up to 21"	-
ST1802FH	600	1500	10	40	TO-220FH	up to 25"	14" / SVGA
ST1803DFH*	600	1500	10	40	TO-220FH	up to 21"	-
BU808DFH^	700	1400	8	42	TO-220FH	up to 21"	-
BUH315DFH*	700	1500	6	40	TO-220FH	14"	-
ST1802HI	600	1500	10	50	ISOWATT218	up to 25"	14" / SVGA
ST1803DHI*	600	1500	10	50	ISOWATT218	up to 21"	-
ST2001HI	600	1500	10	55	ISOWATT218	> 25"	15" / Multisync
ST2009DHI*	600	1500	10	55	ISOWATT218	> 25"	-
ST2310HI	600	1500	10	55	ISOWATT218	> 25"	15" / Multisync
ST2408HI	600	1500	12	55	ISOWATT218	> 25"	15" - 17" / Multisync
BU808DFI^	700	1400	8	52	ISOWATT218	up to 21"	-
BUH315	700	1500	6	44	ISOWATT218	up to 17"	-
BUH315D*	700	1500	6	44	ISOWATT218	up to 17"	-
BU508AFI	700	1500	8	50	ISOWATT218	up to 25"	-
BU508DFI*	700	1500	8	50	ISOWATT218	up to 25"	-
BUH515D*	700	1500	8	50	ISOWATT218	up to 25"	-
S2000AFI	700	1500	8	50	ISOWATT218	up to 25"	-
BUH615D*	700	1500	8	55	ISOWATT218	up to 25"	-
BUH1015HI	700	1500	14	70	ISOWATT218	high-end	17" / Multisync
BUH1215	700	1500	16	200	TO-218	high-end	19" - 21" / Multisync
BUH2M20AP	1200	2000	0.03	40	TO-220	Dynamic Focus	Dynamic Focus

*Integrated free-wheeling diode ^Darlington with integrated free-wheeling diode

ELECTRONIC BALLAST DESIGN-IN GUIDELINES

Part Number	V _{CEO} (V)	V _{CES} V _{CEV} (V)	I _C (A)	P _{tot} (W)	Package	Compact Fluor. Lamps	Halogen Lamps Transf.	Ind. Lamp Ballasts (220V mains)		
								push pull	half bridge	
									volt. feed	curr. feed
STBV68	400	600	0.6	0.9	TO-92	< 9 W	-	-	-	-
STBV45	400	600	0.75	0.95	TO-92	< 11 W	-	-	-	-
STBV42	400	600	1	1	TO-92	< 15 W	-	-	-	-
STBV32	400	700	1	1.1	TO-92	< 18 W	-	-	-	-
ST13003	400	700	1.5	40	SOT-32	< 21 W	-	-	-	-
BULT118	400	700	2	45	SOT-32	< 25 W	-	-	< 20 W	-
BULD118D-1	400	700	2	20	IPAK	< 25 W	-	-	< 20 W	-
BULK128D-B	400	700	4	55	SOT-82	< 30 W	-	-	< 40 W	< 120 W*
STB13005-1	400	700	4	75	I ² PAK	< 30 W	-	-	< 40 W	< 120 W*
BUL118	400	700	3	60	TO-220	< 25 W	-	-	< 20 W	-
BUL128	400	700	4	70	TO-220	< 30 W	-	-	< 40 W	< 120 W*
BUL128D-B	400	700	4	70	TO-220	< 30 W	-	-	< 40 W	< 120 W*
ST13005	400	700	4	75	TO-220	-	-	-	< 40 W	< 120 W*
ST13007	400	700	8	80	TO-220	-	-	< 140 W*	< 100 W	< 140 W*
BUL57	400	700	8	85	TO-220	-	-	< 140 W*	< 100 W	< 140 W*
BUL67	400	700	10	100	TO-220	-	< 150 W	-	-	-
BUL138	400	800	5	80	TO-220	-	-	< 100 W*	< 80 W	< 120 W*
BUL59	400	850	8	90	TO-220	-	< 105 W	-	-	-
BUL89	400	850	12	110	TO-220	-	< 250 W	-	-	-
BUL903ED^	400	900	5	70	TO-220	-	-	< 130 W*	-	< 130 W**
BUL38D	450	800	5	80	TO-220	-	< 75 W	-	-	-
BUL58D	450	800	8	85	TO-220	-	< 105 W	-	-	-
BUL39D	450	850	4	70	TO-220	-	< 50 W	-	-	-
BUL49D	450	850	5	80	TO-220	-	< 75 W	-	-	-
BUL742	450	900	4	70	TO-220	-	-	< 120 W*	-	< 120 W
BUL510	450	1000	10	100	TO-220	-	< 150 W	-	-	-
BUL1203E	550	1200	5	100	TO-220	-	-	< 140 W	-	< 140 W
BUL213	600	1300	3	60	TO-220	-	-	< 110 W	-	< 120 W**
BUL1403ED^	650	1400	3	80	TO-220	-	-	< 130 W**	-	< 130 W**
BUL216	800	1600	4	90	TO-220	-	-	< 130 W**	-	-
BUL416	800	1600	6	110	TO-220	-	-	< 200 W**	-	-
BUL810	450	1000	15	125	TO-218	-	< 300 W	-	-	-

Suffix D = Integrated free-wheeling diode;

* 120V AC mains; ** 277V AC mains; ^ New devices with integrated antisaturation and protection network, specifically designed for Electronic Lamp Ballast

POWER BIPOLAR TRANSISTORS

ELECTRONIC IGNITION

Part Number	Polarity	V_{CE0}	V_{CBO}/V_{CES}	I_C	P_{tot}	Package	$h_{FE} @ I_C ; V_{CE}$		
							h_{FE} min	I_C (A)	V_{CE} (V)
ST931ZT	npn	350	350	10	125	TO-220	300	5	10
BU941ZPFI	npn	350	350	15	65	ISOWATT218	300	5	10
BU941ZT	npn	350	350	15	150	TO-220	300	5	10
BUB941ZT	npn	350	350	15	150	D ² PAK	300	5	10
BU941ZP	npn	350	350	15	155	TO-218	300	5	10
BU941Z	npn	350	350	15	180	TO-3	300	5	10
ST901T	npn	350	500	4	30	TO-220	500	4	2
BU931T	npn	400	500	10	125	TO-220	300	5	10
BUB931T	npn	400	500	10	125	D ² PAK	300	5	10
BU931P	npn	400	500	15	135	TO-218	300	5	10
BU941P	npn	400	500	15	155	TO-218	300	5	10
BU931	npn	400	500	15	175	TO-3	300	5	10
BU941	npn	400	500	15	180	TO-3	300	5	10

SWITCHING TRANSISTORS AND DARLINGTONS (>150V)

Part Number	Polarity	V_{CE0}	V_{CBO} / V_{CES} V_{CEV}	I_C	P_{tot}	Package	Applications	$h_{FE} @ I_C ; V_{CE}$			
								h_{FE} min	h_{FE} max	I_C (A)	V_{CE} (V)
BUW49	npn	80	160	30	150	TO-218	Switching	-	-	-	-
BUV26	npn	90	180	14	85	TO-220	Switching	-	-	-	-
ESM2012DV	npn	120	150	120	175	ISOTOP	Industrial Darl.	1200	-	100	5
BUV27	npn	120	240	12	85	TO-220	Switching	-	-	-	-
BUX10	npn	125	160	25	150	TO-3	Switching	10	-	20	4
BUV20	npn	125	160	50	250	TO-3	Switching	20	60	25	2
BUT70	npn	125	200	40	200	TO-218	Switching	-	-	-	-
BUT90	npn	125	200	50	250	TO-3	Switching	-	-	-	-
BUT100	npn	125	200	50	300	TO-3	Switching	-	-	-	-
BUT30V	npn	125	200	100	250	ISOTOP	Industrial	27	-	100	5
BU407	npn	150	330	7	60	TO-220	Mono TVs	-	-	-	-
BU807	npn	150	330	8	60	TO-220	Mono TVs Darl.	-	-	-	-
2N5415	pnp	200	200	1	10	TO-39	Switching	30	150	0.05	10
BUY49S	npn	200	250	3	10	TO-39	Switching	40	-	0.5	5
BUV61	npn	200	300	50	250	TO-3	Switching	-	-	-	-
BUR51	npn	200	300	60	350	TO-3	Switching	15	-	50	4
BU406	npn	200	400	7	60	TO-220	Mono TVs	-	-	-	-
BU806	npn	200	400	8	60	TO-220	Mono TVs Darl.	-	-	-	-
BUV28	npn	200	400	12	85	TO-220	Switching	-	-	-	-
2N3440	npn	250	300	1	10	TO-39	Switching	40	160	0.02	10
BUX22	npn	250	300	40	350	TO-3	Switching	20	60	10	4
MJE3440	npn	250	350	0.3	15	SOT-32	Switching	50	200	0.02	10
MJD47	npn	250	350	1	15	DPAK	Switching	10	-	1	10
TIP47	npn	250	350	1	40	TO-220	Switching	30	150	1	10
BUT92	npn	250	350	50	250	TO-3	Switching	-	-	-	-
BUR52	npn	250	350	60	350	TO-3	Switching	15	-	40	4
BUTW92	npn	250	500	60	180	TO-247	Switching	9	-	60	3
MJD340	npn	300	300	0.5	15	DPAK	General Purpose	30	240	0.05	10
MJD350	pnp	300	300	0.5	15	DPAK	General Purpose	30	240	0.05	10
MJE340	npn	300	300	0.5	20	SOT-32	Switching	30	240	0.05	10
MJE350	pnp	300	300	0.5	20	SOT-32	Switching	30	240	0.05	10
2N5416	pnp	300	350	1	10	TO-39	Switching	30	120	0.05	10
STN48	npn	300	400	1	2.8	SOT-223	Switching	30	150	1	10
TIP48	npn	300	400	1	40	TO-220	Switching	30	150	1	10
ESM2030DV	npn	300	400	67	150	ISOTOP	Industrial Darl.	300	-	56	5
BUT32V	npn	300	400	80	250	ISOTOP	Industrial	16	-	40	5
ESM3030DV	npn	300	400	100	225	ISOTOP	Industrial Darl.	300	-	85	5

POWER BIPOLAR TRANSISTORS

Contd.

Part Number	Polarity	V_{CEO} (V)	V_{CBO} / V_{CES} V_{CEV} (V)	I_C (A)	P_{tot} (W)	Package	Applications	$h_{FE} @ I_C : V_{CE}$			
								h_{FE} min	h_{FE} max	I_C (A)	V_{CE} (V)
BUT232V	nnp	300	400	140	300	ISOTOP	Industrial	17	-	70	5
2N5657	nnp	350	375	0.5	20	SOT-32	General Purpose	30	250	0.1	10
2N3439	nnp	350	450	1	10	TO-39	Switching	40	160	0.02	10
MJD49T4	nnp	350	450	1	15	DPAK	Switching	30	150	0.3	10
TIP49	nnp	350	450	1	40	TO-220	Switching	30	150	1	10
MJE5852	pnp	400	450	8	80	TO-220	Switching	15	-	2	5
MJD50	nnp	400	500	1	15	DPAK	Switching	30	150	0.3	10
TIP50	nnp	400	500	1	40	TO-220	Switching	30	150	1	10
BU810	nnp	400	600	7	75	TO-220	Switching Darl.	100	-	2	2
BULT118D	nnp	400	700	2	45	SOT-32	Lighting / SMPS	10	50	0.5	5
BUL128FP	nnp	400	700	4	31	TO-220FP	SMPS / Lighting	15	-	1	5
ST13007FP	nnp	400	700	8	36	TO-220FP	SMPS	5	30	5	5
MJE13007	nnp	400	700	8	80	TO-220	Switching	6	-	5	5
ST13007D	nnp	400	700	8	80	TO-220	Lighting / SMPS	8	25	5	5
MJE13009	nnp	400	700	12	100	TO-220	Switching	6	-	8	5
BUL381	nnp	400	800	5	70	TO-220	Lighting / SMPS	8	-	2	5
BUL382	nnp	400	800	5	70	TO-220	Lighting / SMPS	8	-	2	5
BUX80	nnp	400	800	10	100	TO-3	Switching	30	-	1.2	5
BUV46	nnp	400	850	5	70	TO-220	Switching	-	-	-	-
MJE13007A	nnp	400	850	8	80	TO-220	Switching	6	30	5	5
BUV48FI	nnp	400	850	15	55	ISOWATT218	Switching	-	-	-	-
2N6547	nnp	400	850	15	175	TO-3	Switching	6	-	10	2
BUX48	nnp	400	850	15	175	TO-3	Switching	-	-	-	-
BUX98	nnp	400	850	30	250	TO-3	Switching	-	-	-	-
BU326A	nnp	400	900	6	75	TO-3	Mono TVs	25	-	1	5
BU426A	nnp	400	900	6	114	TO-218	Mono TVs	30	-	0.6	5
BUY69A	nnp	400	1000	10	100	TO-3	Switching	15	-	2.5	10
ESM3045DV	nnp	450	600	24	125	ISOTOP	Industrial Darl.	120	-	20	5
ESM4045DV	nnp	450	600	42	150	ISOTOP	Industrial Darl.	220	-	35	5
ESM5045DV	nnp	450	600	60	175	ISOTOP	Industrial Darl.	150	-	50	5
ESM6045DV	nnp	450	600	84	250	ISOTOP	Industrial Darl.	120	-	70	5
BUF410	nnp	450	850	15	125	TO-218	SMPS	-	-	-	-
BUX98PI	nnp	450	850	30	115	TOP3-I	Switching	5	-	20	2
BUF420	nnp	450	850	30	200	TO-218	SMPS	-	-	-	-
BUF420M	nnp	450	850	30	200	TO-3	SMPS / Industrial	-	-	-	-
BUX348	nnp	450	850	45	300	TO-3	Switching	-	-	-	-
BUV298V	nnp	450	850	60	250	ISOTOP	Industrial	12	-	32	5
BUXD87-1	nnp	450	1000	0.5	20	IPAK	SMPS	12	-	0.04	5
BUX87	nnp	450	1000	0.5	40	SOT-32	SMPS	12	-	0.04	5
STD616A-1	nnp	450	1000	1.6	20	IPAK	SMPS	4	-	1.6	5
BUV46A	nnp	450	1000	5	70	TO-220	Switching	-	-	-	-
BUT11A	nnp	450	1000	5	83	TO-220	SMPS	-	-	-	-
BUV48AFI	nnp	450	1000	15	55	ISOWATT218	Switching	-	-	-	-
BUF410A	nnp	450	1000	15	125	TO-218	SMPS	-	-	-	-
BUV48A	nnp	450	1000	15	125	TO-218	Switching / Lighting	-	-	-	-
BUX48A	nnp	450	1000	15	175	TO-3	Switching	-	-	-	-
BUX98AP	nnp	450	1000	24	200	TO-218	Switching	-	-	-	-
BUF420AI	nnp	450	1000	30	115	TOP3-I	SMPS / Industrial	-	-	-	-
BUV98AV	nnp	450	1000	30	150	ISOTOP	Industrial	9	-	24	5
BUV98V	nnp	450	1000	30	150	ISOTOP	Industrial	9	-	24	5
BUF420A	nnp	450	1000	30	200	TO-218	SMPS / Industrial	-	-	-	-
BUX98A	nnp	450	1000	30	250	TO-3	Switching	-	-	-	-
BUV298AV	nnp	450	1000	50	250	ISOTOP	Industrial	12	-	32	5
ESM6045AV	nnp	450	1000	72	250	ISOTOP	Industrial Darl.	150	-	60	5
BUF460AV	nnp	450	1000	80	270	ISOTOP	Industrial	15	-	60	5
SGSIF344FP	nnp	600	1200	7	40	TO-220FP	SMPS	-	-	-	-
BUV48B	nnp	600	1200	15	125	TO-218	Switching	-	-	-	-
BUV48CFI	nnp	700	1200	15	55	ISOWATT218	Switching	-	-	-	-
BUV48C	nnp	700	1200	15	125	TO-218	Switching	-	-	-	-
BUX48C	nnp	700	1200	15	175	TO-3	Switching	-	-	-	-
BUX98C	nnp	700	1200	30	250	TO-3	Switching	-	-	-	-

POWER BIPOLAR TRANSISTORS

Contd.

Part Number	Polarity	V_{CE0} (V)	V_{CBO} / V_{CES} V_{CEV} (V)	I_C (A)	P_{tot} (W)	Package	Applications	$h_{FE} @ I_C ; V_{CE}$			
								h_{FE} min	h_{FE} max	I_C (A)	V_{CE} (V)
BU505	npn	700	1500	2.5	75	TO-220	Colour TVs / Lighting	-	-	-	-
THD218DHI	npn	700	1500	7	50	ISOWATT218	Colour TVs	6	13	4	5
THD277HI	npn	700	1500	8	50	ISOWATT218	Colour TVs & Monitors	6	13	4	5
BU508A	npn	700	1500	8	125	TO-218	Colour TVs	-	-	-	-
BU208A	npn	700	1500	8	150	TO-3	Colour TVs	-	-	-	-
BU208D	npn	700	1500	8	150	TO-3	Colour TVs	-	-	-	-
THD200FI	npn	700	1500	10	57	ISOWATT218	Colour TVs & Monitors	6.5	-	7	5
THD215HI	npn	700	1500	10	57	ISOWATT218	Colour TVs & Monitors	6	-	6	5

GENERAL PURPOSE TRANSISTORS AND DARLINGTONS (<160V)

Part Number	Polarity	V_{CE0} (V)	V_{CBO}/V_{CES} V_{CEV} (V)	I_C (A)	P_{tot} (W)	Package	Applications	$h_{FE} @ I_C ; V_{CE}$			
								h_{FE} min	h_{FE} max	I_C (A)	V_{CE} (V)
BD433	nnp	22	22	4	36	SOT-32	Gen. Purp.	50	-	2	1
BD434	pnp	22	22	4	36	SOT-32	Gen. Purp.	50	-	2	1
MJD200T4	nnp	25	40	5	12.5	DPAK	Gen. Purp.	45	180	2	1
MJE210	pnp	25	40	5	15	SOT-32	Gen. Purp.	45	180	2	1
STT818A	pnp	30	30	3	1.2	SOT23-6L	Mobile Phone	100	-	0.5	1
2N6111	pnp	30	40	7	40	TO-220	Gen. Purp.	30	-	4	3
BD435	nnp	32	32	4	36	SOT-32	Gen. Purp.	50	-	2	1
BD436	pnp	32	32	4	36	SOT-32	Gen. Purp.	50	-	2	1
MJE521	nnp	40	40	4	40	SOT-32	Gen. Purp.	40	-	1	1
2N3771	nnp	40	50	30	150	TO-3	Gen. Purp.	15	60	15	4
BD135	nnp	45	45	1.5	12.5	SOT-32	Gen. Purp.	40	250	0.15	2
BD136	pnp	45	45	1.5	12.5	SOT-32	Gen. Purp.	40	250	0.15	2
BD234	pnp	45	45	2	25	SOT-32	Gen. Purp.	25	-	1	2
BD437	nnp	45	45	4	36	SOT-32	Gen. Purp.	40	-	2	1
BD438	pnp	45	45	4	36	SOT-32	Gen. Purp.	40	-	2	1
BD533	nnp	45	45	8	50	TO-220	Gen. Purp.	25	-	2	2
BD534	pnp	45	45	8	50	TO-220	Gen. Purp.	25	-	2	2
D45H5	pnp	45	45	10	50	TO-220	Gen. Purp.	40	-	4	1
TIP29A	nnp	60	60	1	30	TO-220	Gen. Purp.	15	75	1	4
TIP30A	pnp	60	60	1	30	TO-220	Gen. Purp.	15	75	1	4
BD138	pnp	60	60	1.5	12.5	SOT-32	Gen. Purp.	40	250	0.15	2
BD235	nnp	60	60	2	25	SOT-32	Gen. Purp.	25	-	1	2
BD236	pnp	60	60	2	25	SOT-32	Gen. Purp.	25	-	1	2
TIP110	nnp	60	60	2	50	TO-220	Gen. Purp. Darl.	1000	-	1	4
TIP115	pnp	60	60	2	50	TO-220	Gen. Purp. Darl.	1000	--	1	4
TIP31A	nnp	60	60	3	40	TO-220	Gen. Purp.	10	50	3	4
TIP32A	pnp	60	60	3	40	TO-220	Gen. Purp.	10	50	3	4
BD439	nnp	60	60	4	36	SOT-32	Gen. Purp.	25	-	2	1
BD440	pnp	60	60	4	36	SOT-32	Gen. Purp.	25	-	2	1
2N5191	nnp	60	60	4	40	SOT-32	Switching	25	100	1.5	2
BD677	nnp	60	60	4	40	SOT-32	Gen. Purp. Darl.	750	-	1.5	3
BD677A	nnp	60	60	4	40	SOT-32	Gen. Purp. Darl.	750	-	2	3
BD678	pnp	60	60	4	40	SOT-32	Gen. Purp. Darl.	750	-	1.5	3
BD678A	pnp	60	60	4	40	SOT-32	Gen. Purp. Darl.	750	-	2	3
TIP120	nnp	60	60	5	65	TO-220	Gen. Purp. Darl.	1000	-	3	3
TIP125	pnp	60	60	5	65	TO-220	Gen. Purp. Darl.	1000	-	3	3
TIP41A	nnp	60	60	6	65	TO-220	Gen. Purp.	15	75	3	4
TIP42A	pnp	60	60	6	65	TO-220	Gen. Purp.	15	75	3	4
BD535	nnp	60	60	8	50	TO-220	Gen. Purp.	25	-	2	2
BD536	pnp	60	60	8	50	TO-220	Gen. Purp.	25	-	2	2

POWER BIPOLAR TRANSISTORS

Contd.

Part Number	Polarity	V _{CEO} (V)	V _{CBO} /V _{CES} V _{CEV} (V)	I _C (A)	P _{tot} (W)	Package	Applications	h _{FE} @ I _C ; V _{CE}			
								h _{FE} min	h _{FE} max	I _C (A)	V _{CE} (V)
TIP135	pn	60	60	8	70	TO-220	Gen. Purp. Darl.	1000	15000	4	4
TIP105	pn	60	60	8	80	TO-220	Gen. Purp. Darl.	1000	20000	3	4
D44H8	npn	60	60	10	50	TO-220	Gen. Purp.	40	-	4	1
D45H8	pn	60	60	10	50	TO-220	Gen. Purp.	40	-	4	1
TIP140	npn	60	60	10	125	TO-218	Gen. Purp. Darl.	1000	-	5	4
TIP145	pn	60	60	10	125	TO-218	Gen. Purp. Darl.	1000	-	5	4
BD707	npn	60	60	12	75	TO-220	Gen. Purp.	15	150	4	4
BD708	pn	60	60	12	75	TO-220	Gen. Purp.	15	150	4	4
BSS44	pn	60	65	5	5	TO-39	Switching	40	70	2	2
BD241A	npn	60	70	3	40	TO-220	Gen. Purp.	25	-	1	4
BD242A	pn	60	70	3	40	TO-220	Gen. Purp.	25	-	1	4
MJD2955	pn	60	70	10	20	DPAK	Gen. Purp.	20	100	4	4
MJD3055	npn	60	70	10	20	DPAK	Gen. Purp.	20	100	4	4
MJE2955T	pn	60	70	10	75	TO-220	Gen. Purp.	20	70	4	4
MJE3055T	npn	60	70	10	75	TO-220	Gen. Purp.	20	70	4	4
2N6487	npn	60	70	15	75	TO-220	Gen. Purp.	20	150	5	4
2N6490	pn	60	70	15	75	TO-220	Gen. Purp.	20	150	5	4
TIP2955	pn	60	70	15	90	TO-218	Gen. Purp.	20	-	4	4
TIP3055	npn	60	70	15	90	TO-218	Gen. Purp.	20	-	4	4
2N3772	npn	60	80	20	150	TO-3	Gen. Purp.	15	60	10	4
TIP33A	npn	60	100	10	80	TO-218	Gen. Purp.	20	100	3	4
2N3055	npn	60	100	15	115	TO-3	Gen. Purp.	20	70	4	4
MJ2955	pn	60	100	15	115	TO-3	Gen. Purp.	20	70	4	4
BFX34	npn	60	120	5	5	TO-39	Switching	40	150	2	2
BUW48	npn	60	120	30	150	TO-218	Switching	-	-	-	-
2N6107	pn	70	80	7	40	TO-220	Gen. Purp.	30	-	4	2
2N4923	npn	80	80	1	30	SOT-32	Gen. Purp.	30	150	0.5	1
BD139	npn	80	80	1.5	12.5	SOT-32	Gen. Purp.	40	250	0.15	2
BD139-10	npn	80	80	1.5	12.5	SOT-32	Gen. Purp.	63	250	0.15	2
BD140	pn	80	80	1.5	12.5	SOT-32	Gen. Purp.	40	250	0.15	2
BD140-10	pn	80	80	1.5	12.5	SOT-32	Gen. Purp.	63	250	0.15	2
MJD31B	npn	80	80	3	15	DPAK	Gen. Purp.	10	50	3	4
MJD32B	pn	80	80	3	15	DPAK	Gen. Purp.	10	50	3	4
BD179	npn	80	80	3	30	SOT-32	Gen. Purp.	40	-	0.15	2
MJB32BT4	npn	80	80	3	40	D ² PAK	Gen. Purp.	10	50	3	4
TIP32B	pn	80	80	3	40	TO-220	Gen. Purp.	10	50	3	4
BD441	npn	80	80	4	36	SOT-32	Gen. Purp.	15	-	2	1
BD442	pn	80	80	4	36	SOT-32	Gen. Purp.	15	-	2	1
2N5192	npn	80	80	4	40	SOT-32	Switching	20	80	1.5	2
2N5195	pn	80	80	4	40	SOT-32	Switching	20	80	1.5	2
2N6036	pn	80	80	4	40	SOT-32	Gen. Purp. Darl.	750	15000	2	3
2N6039	npn	80	80	4	40	SOT-32	Gen. Purp. Darl.	750	15000	2	3
BD679	npn	80	80	4	40	SOT-32	Gen. Purp. Darl.	750	-	1.5	3
BD679A	npn	80	80	4	40	SOT-32	Gen. Purp. Darl.	750	-	2	3
BD680	pn	80	80	4	40	SOT-32	Gen. Purp. Darl.	750	-	1.5	3
BD680A	pn	80	80	4	40	SOT-32	Gen. Purp. Darl.	750	-	2	3
MJE802	npn	80	80	4	40	SOT-32	Gen. Purp. Darl.	750	-	1.5	3
TIP121	npn	80	80	5	65	TO-220	Gen. Purp. Darl.	1000	-	3	3
TIP126	pn	80	80	5	65	TO-220	Gen. Purp. Darl.	1000	-	3	3
BD243B	npn	80	80	6	65	TO-220	Gen. Purp.	15	-	3	4
BD244B	pn	80	80	6	65	TO-220	Gen. Purp.	15	-	3	4
TIP41B	npn	80	80	6	65	TO-220	Gen. Purp.	15	75	3	4
BDX53BFP	npn	80	80	8	29	TO-220FP	Gen. Purp. Darl.	750	-	3	3
BD537	npn	80	80	8	50	TO-220	Gen. Purp.	15	-	2	2
BD538	pn	80	80	8	50	TO-220	Gen. Purp.	15	-	2	2
BDX53B	npn	80	80	8	60	TO-220	Gen. Purp. Darl.	750	-	3	3

POWER BIPOLAR TRANSISTORS

Contd.

Part Number	Polarity	V_{CE0} (V)	V_{CBO}/V_{CES} V_{CEV} (V)	I_C (A)	P_{tot} (W)	Package	Applications	h_{FE} @ I_C ; V_{CE}			
								h_{FE} min	h_{FE} max	I_C (A)	V_{CE} (V)
BDX54B	pnp	80	80	8	60	TO-220	Gen. Purp. Darl.	750	-	3	3
MJD44H11	npn	80	80	10	20	DPAK	Gen. Purp.	40	-	4	1
MJD45H11	pnp	80	80	10	20	DPAK	Gen. Purp.	40	-	4	1
D44H11	npn	80	80	10	50	TO-220	Gen. Purp.	40	-	4	1
D45H11	pnp	80	80	10	50	TO-220	Gen. Purp.	40	-	4	1
2N6388	npn	80	80	10	65	TO-220	Gen. Purp. Darl.	1000	20000	5	3
2N6668	pnp	80	80	10	65	TO-220	Gen. Purp. Darl.	1000	20000	5	3
BDX33B	npn	80	80	10	70	TO-220	Gen. Purp. Darl.	750	-	3	3
BDX34B	pnp	80	80	10	70	TO-220	Gen. Purp. Darl.	750	-	3	3
TIP141	npn	80	80	10	125	TO-218	Gen. Purp. Darl.	1000	-	5	4
TIP146	pnp	80	80	10	125	TO-218	Gen. Purp. Darl.	1000	-	5	4
MJ2501	pnp	80	80	10	150	TO-3	Gen. Purp. Darl.	1000	-	5	3
MJ3001	npn	80	80	10	150	TO-3	Gen. Purp. Darl.	1000	-	5	3
BD709	npn	80	80	12	75	TO-220	Gen. Purp.	15	150	4	4
BDW94B	pnp	80	80	12	80	TO-220	Gen. Purp. Darl.	750	20000	5	3
BD909	npn	80	80	15	90	TO-220	Gen. Purp.	15	150	5	4
BD910	pnp	80	80	15	90	TO-220	Gen. Purp.	15	150	5	4
TIP36B	pnp	80	80	25	125	TO-218	Gen. Purp.	15	75	15	4
SGSD100	npn	80	80	25	130	TO-218	Gen. Purp. Darl.	300	-	20	3
SGSD200	pnp	80	80	25	130	TO-218	Gen. Purp. Darl.	300	-	20	3
2N5886	npn	80	80	25	200	TO-3	Gen. Purp.	20	100	10	4
BD241BFP	npn	80	90	3	24	TO-220FP	Gen. Purp.	25	-	1	4
BD242BFP	pnp	80	90	3	24	TO-220FP	Gen. Purp.	25	-	1	4
BD241B	npn	80	90	3	40	TO-220	Gen. Purp.	25	-	1	4
BD242B	pnp	80	90	3	40	TO-220	Gen. Purp.	25	-	1	4
2N6488	npn	80	90	15	75	TO-220	Gen. Purp.	20	150	5	4
BD237	npn	80	100	2	25	SOT-32	Gen. Purp.	25	-	1	2
BD238	pnp	80	100	2	25	SOT-32	Gen. Purp.	25	-	1	2
MJE172	pnp	80	100	3	12.5	SOT-32	Gen. Purp.	12	-	1.5	1
MJE182	npn	80	100	3	12.5	SOT-32	Gen. Purp.	12	-	1.5	1
2N5153	pnp	80	100	5	10	TO-39	Switching	70	200	2.5	5
MJ11014	npn	90	90	30	200	TO-3	Gen. Purp. Darl.	1000	-	20	5
MJ802	npn	90	100	30	200	TO-3	Gen. Purp.	25	100	7.5	2
2N5038	npn	90	150	20	140	TO-3	Switching	20	100	12	5
2N5681	npn	100	100	1	10	TO-39	Switching	40	150	0.25	2
TIP29C	npn	100	100	1	30	TO-220	Gen. Purp.	15	75	1	4
TIP30C	pnp	100	100	1	30	TO-220	Gen. Purp.	15	75	1	4
STX112	npn	100	100	2	0.8	TO-92	Gen. Purp. Darl.	1000	-	1	4
MJD112	npn	100	100	2	20	DPAK	Gen. Purp. Darl.	1000	12000	2	3
MJD117	pnp	100	100	2	20	DPAK	Gen. Purp. Darl.	1000	12000	2	3
TIP112	npn	100	100	2	50	TO-220	Gen. Purp. Darl.	1000	-	1	4
TIP117	pnp	100	100	2	50	TO-220	Gen. Purp. Darl.	1000	-	1	4
MJD31C	npn	100	100	3	15	DPAK	Gen. Purp.	10	50	3	4
MJD32C	pnp	100	100	3	15	DPAK	Gen. Purp.	10	50	3	4
TIP31C	npn	100	100	3	40	TO-220	Gen. Purp.	10	50	3	4
TIP32C	pnp	100	100	3	40	TO-220	Gen. Purp.	10	50	3	4
BD681	npn	100	100	4	40	SOT-32	Gen. Purp. Darl.	750	-	1.5	3
BD682	pnp	100	100	4	40	SOT-32	Gen. Purp. Darl.	750	-	1.5	3
MJD122	npn	100	100	5	20	DPAK	Gen. Purp. Darl.	1000	12000	4	4
MJD127	pnp	100	100	5	20	DPAK	Gen. Purp. Darl.	1000	12000	4	4
TIP122FP	npn	100	100	5	29	TO-220FP	Gen. Purp. Darl.	1000	-	3	3
TIP127FP	pnp	100	100	5	29	TO-220FP	Gen. Purp. Darl.	1000	-	3	3
TIP122	npn	100	100	5	65	TO-220	Gen. Purp. Darl.	1000	-	3	3
TIP127	pnp	100	100	5	65	TO-220	Gen. Purp. Darl.	1000	-	3	3
BD336	pnp	100	100	6	60	SOT-82	Gen. Purp. Darl.	750	-	3	3
BD243C	npn	100	100	6	65	TO-220	Gen. Purp.	15	-	3	4

POWER BIPOLAR TRANSISTORS

Contd.

Part Number	Polarity	V_{CEO} (V)	V_{CBO}/V_{CES} V_{CEV} (V)	I_C (A)	P_{tot} (W)	Package	Applications	h_{FE} @ I_C ; V_{CE}			
								h_{FE} min	h_{FE} max	I_C (A)	V_{CE} (V)
BD244C	pn	100	100	6	65	TO-220	Gen. Purp.	15	-	3	4
TIP41C	npn	100	100	6	65	TO-220	Gen. Purp.	15	75	3	4
TIP42C	pn	100	100	6	65	TO-220	Gen. Purp.	15	75	3	4
BDX53C	npn	100	100	8	60	TO-220	Gen. Purp. Darl.	750	-	3	3
BDX54C	pn	100	100	8	60	TO-220	Gen. Purp. Darl.	750	-	3	3
TIP132	npn	100	100	8	70	TO-220	Gen. Purp. Darl.	1000	15000	4	4
TIP137	pn	100	100	8	70	TO-220	Gen. Purp. Darl.	1000	15000	4	4
TIP102	npn	100	100	8	80	TO-220	Gen. Purp. Darl.	1000	20000	3	4
TIP107	pn	100	100	8	80	TO-220	Gen. Purp. Darl.	1000	20000	3	4
BDX33C	npn	100	100	10	70	TO-220	Gen. Purp. Darl.	750	-	3	3
BDX34C	pn	100	100	10	70	TO-220	Gen. Purp. Darl.	750	-	3	3
TIP142T	npn	100	100	10	90	TO-220	Gen. Purp. Darl.	1000	-	5	4
TIP147T	pn	100	100	10	90	TO-220	Gen. Purp. Darl.	1000	-	5	4
TIP142	npn	100	100	10	125	TO-218	Gen. Purp. Darl.	1000	-	5	4
TIP147	pn	100	100	10	125	TO-218	Gen. Purp. Darl.	1000	-	5	4
BDW93CFP	npn	100	100	12	33	TO-220FP	Gen. Purp. Darl.	750	-	5	3
BDW94CFP	pn	100	100	12	33	TO-220FP	Gen. Purp. Darl.	750	-	5	3
BD711	npn	100	100	12	75	TO-220	Gen. Purp.	15	150	4	4
BD712	pn	100	100	12	75	TO-220	Gen. Purp.	15	150	4	4
BDW93C	npn	100	100	12	80	TO-220	Gen. Purp. Darl.	750	20000	5	3
BDW94C	pn	100	100	12	80	TO-220	Gen. Purp. Darl.	750	20000	5	3
2N6059	npn	100	100	12	150	TO-3	Gen. Purp. Darl.	750	-	6	3
BD911	npn	100	100	15	90	TO-220	Gen. Purp.	15	150	5	4
BD912	pn	100	100	15	90	TO-220	Gen. Purp.	15	150	5	4
BDW83C	npn	100	100	15	130	TO-218	Gen. Purp. Darl.	750	20000	6	3
BDW84C	pn	100	100	15	130	TO-218	Gen. Purp. Darl.	750	20000	6	3
MJ4032	pn	100	100	16	150	TO-3	Gen. Purp. Darl.	1000	-	10	3
MJ4035	npn	100	100	16	150	TO-3	Gen. Purp. Darl.	1000	-	10	3
2N6284	npn	100	100	20	160	TO-3	Gen. Purp. Darl.	750	18000	10	3
2N6287	pn	100	100	20	160	TO-3	Gen. Purp. Darl.	750	18000	10	3
TIP35C	npn	100	100	25	125	TO-218	Gen. Purp.	15	75	15	4
TIP36C	pn	100	100	25	125	TO-218	Gen. Purp.	15	75	15	4
BD239C	npn	100	115	2	30	TO-220	Gen. Purp.	15	-	1	4
BD241C	npn	100	115	3	40	TO-220	Gen. Purp.	25	-	1	4
BD242C	pn	100	115	3	40	TO-220	Gen. Purp.	25	-	1	4
TIP33C	npn	100	140	10	80	TO-218	Gen. Purp.	20	100	3	4
TIP34C	pn	100	140	10	80	TO-218	Gen. Purp.	20	100	3	4
2N5682	npn	120	120	1	10	TO-39	Switching	40	150	0.25	2
BDX53F	npn	160	160	8	60	TO-220	Gen. Purp. Darl.	500	-	2	5
BDX54F	pn	160	160	8	60	TO-220	Gen. Purp. Darl.	500	-	2	5

POWER MOSFETs

P-CHANNEL

Part Number	V _{DSS} (V)	R _{DS(on)} @ 10V (Ω)	R _{DS(on)} @ 4.5V (W)	I _{D(cont)} (A)	Q _g @ 10V (Typ) (nC)	Package
STD10PF06	-60	0.2	-	10	16	DDPAK
STP12PF06	-60	0.2	-	-12	-	TO-220
STT2PF60L	-60	0.27	-	-2	-	SOT23-6L
STB80PF55	-55	0.02	-	-80	180	D ² PAK
STP80PF55	-55	0.02	-	-80	180	TO-220
STS3DPFS45	-45	0.1	-	-3	23	SO-8
STS6PF30L	-30	0.04	-	-6	-	SO-8
STS5PF30L	-30	0.06	0.075	-5	12.5	SO-8
STS4DPF30L	-30	0.08	-	-4	-	SO-8
STS3DPFS30	-30	0.09	-	-3	23	SO-8
STS3DPF30L	-30	0.16	0.19	-3	5.5	SO-8
STS3DPFS30L	-30	0.16	0.19	-3	5.5	SO-8
STT3PF30L	-30	0.165	0.2	-3	5.5	SOT23-6L
STS4DPFS20L	-20	0.06	0.075	-4	-	SO-8
STS4DPFS2LS	-20	0.06	0.075	-4	-	SO-8
STS4DPF20L	-20	0.06	0.075	-4	-	SO-8
STS2DPFS20V	-20	-	0.19	-2	-	SO-8
STT3PF20LV	-20	-	0.19	-3	-	SOT23-6L

LOW VOLTAGE

Part Number	V _{DSS} (V)	R _{DS(on)} @ 10V (Ω)	R _{DS(on)} @ 4.5V (W)	I _{D(cont)} (A)	Q _g @ 10V (Typ) (nC)	Package
STV160NF02L	20	0.0025	-	160	115	PowerSO-10
STV160NF02LA	20	0.0028	-	160	130	PowerSO-10
STB70NF02L	20	0.009	0.015	70	36	DDPAK
STD40NF02L	20	0.013	-	40	36	DDPAK
STT5NF20V	20	-	0.045	5	-	SOT23-6L
STV160NF03L	30	0.0028	-	160	115	PowerSO-10
STB160NF03L	30	0.003	0.007	160	160	D ² PAK
STB160NF3LL	30	0.003	0.0043	160	160	D ² PAK
STV160NF03LA	30	0.003	-	160	130	PowerSO-10
STB100NF03L-03	30	0.0032	0.0045	100	160	D ² PAK
STB80NF03L-04/-1	30	0.004	0.005	80	160	D ² PAK/I ² PAK
STP80NF03L-04	30	0.004	0.005	80	100	TO-220
STB80NF03L-06	30	0.006	-	80	-	D ² PAK
STP80NE03L-06	30	0.006	-	80	95	TO-220
STB90NF03L	30	0.0065	0.095	90	75	D ² PAK
STP90NF03L	30	0.0065	0.012	90	-	TO-220
STD60NF3LL	30	0.0095	0.011	60	60	DDPAK
STB60NE03L-10	30	0.01	0.015	60	62	D ² PAK
STB60NF03L	30	0.01	0.015	60	43	D ² PAK
STB70NF03L	30	0.01	0.018	70	35	D ² PAK
STB70NF3LL	30	0.01	0.012	70	43	D ² PAK
STB70NFS03L	30	0.01	-	70	35	D ² PAK
STP60NF03L	30	0.01	0.015	60	43	TO-220
STP70NF03L	30	0.01	0.018	70	35	TO-220
STP70NF3LL	30	0.01	0.012	70	43	TO-220
STS12NF30L	30	0.01	0.012	12	35	SO-8
STS11NF3LL	30	0.011	0.018	11	25	SO-8
STD40NF3LL	30	0.0115	0.0135	40	43	DDPAK
STB60NE03L-12	30	0.012	-	60	-	D ² PAK
STP60NE03L-12	30	0.012	-	60	62	TO-220
STS11NF30L	30	0.012	0.0185	11	19	SO-8
STB55NF03L	30	0.013	0.021	55	25	D ² PAK
STD45NF03L	30	0.013	0.018	45	43	DDPAK
STB50NF03L	30	0.0135	-	50	-	D ² PAK
STP50NF03L	30	0.0135	-	50	-	TO-220
STP55NF03L	30	0.0135	-	55	-	TO-220
STS10NF30L	30	0.0135	0.022	10	25	SO-8

Part Number	V _{DSS} (V)	R _{DS(on)} @ 10V (Ω)	R _{DS(on)} @ 4.5V (W)	I _{D(cont)} (A)	Q _g @ 10V (Typ) (nC)	Package
STB3015L	30	0.0155	-	40	40	D ² PAK
STP3015L	30	0.0155	-	40	-	TO-220
STD38NF03L	30	0.016	0.019	38	27	DPAK
STD40NE03L	30	0.016	0.022	40	35	DPAK
STD40NF03L	30	0.016	0.02	40	35	DPAK
STB45NF3LL	30	0.017	0.02	45	22	D ² PAK
STP45NF3LL	30	0.017	0.02	45	22	TO-220
STS9NF3LL	30	0.019	0.021	9	22	SO-8
STB36NF03L	30	0.02	0.035	36	18	D ² PAK
STD35NF3LL	30	0.02	0.023	35	22	DPAK
STB3020L	30	0.022	0.038	40	21	D ² PAK
STB40NF03L	30	0.022	0.035	40	18	D ² PAK
STP3020L	30	0.022	0.038	40	21	TO-220
STP40NF03L	30	0.022	0.035	40	18	TO-220
STS7DNF30L	30	0.022	-	7	-	SO-8
STS7DNFS30L	30	0.022	0.026	7	17.5	SO-8
STS8NF30L	30	0.022	0.026	8	17.5	SO-8
STS8NFS30L	30	0.022	0.026	8	17.5	SO-8
STD29NF03L	30	0.023	0.038	29	18	DPAK
STD30NF03L	30	0.025	0.035	30	18	DPAK
STS6DNF30L	30	0.025	0.032	6	17	SO-8
STS7NF30L	30	0.025	0.032	7	17	SO-8
STP30NE03L	30	0.04	0.055	30	20	TO-220
STP30NE03LFP	30	0.04	0.055	17	20	TO-220FP
STS5DNE30L	30	0.045	0.065	5	-	SO-8
STD16NF03L	30	0.05	0.06	16	6.5	DPAK
STN4NE03L	30	0.05	0.06	4	6.5	SOT-223
STN4NF03L	30	0.05	0.06	4	6.5	SOT-223
STP20NF03L	30	0.05	-	20	-	TO-220
STS4DNFS30L	30	0.05	0.06	4	6.5	SO-8
STS3DNF30L	30	0.065	0.09	3.5	8	SO-8
STT4NF30L	30	0.065	-	4	-	SOT23-6L
STS2DNF30L	30	0.11	0.15	3	4.5	SO-8
STS2DNFS30L	30	0.11	0.15	3	4.5	SO-8
STS7C4F30L	30/-30	0.022 / 0.08	0.026 / 0.075	7/-4	17.5 / 12.5	SO-8
STS3C3F30L	30/-30	0.065 / 0.165	0.090 / 0.20	3 / -3	16 / 11	SO-8
STP80NS04Z	34	0.008	-	80	60	TO-220
STP60NS04Z	34	0.015	-	60	70	TO-220
STB160NF4LL	40	0.004	0.0068	160	160	D ² PAK
STB100NF04L	40	0.0042	0.007	100	160	D ² PAK
STP100NF04L	40	0.0042	0.005	100	160	TO-220
STP60NS04Z	40	0.015	-	60	70	TO-220
IRFZ40	50	0.028	-	50	50	TO-220
BUZ11	50	0.04	-	30	-	TO-220
BUZ11A	50	0.055	-	26	-	TO-220
BUZ10	50	0.07	-	23	-	TO-220
BUZ71	50	0.1	-	14	-	TO-220
STP80NF55-06FP	55	0.0065	-	60	190	TO-220FP
STP80NF55L-06FP	55	0.0065	0.008	60	97	TO-220FP
STW80NF55-06	55	0.0065	-	80	178	TO-247
STW80NF55-06	55	0.0065	-	80	178	TO-247
STW80NF55-06	55	0.0065	-	80	178	TO-220
STB80NF55-06/-1	55	0.0065	-	80	190	D ² PAK/I ² PAK
STB80NF55L-06/-1	55	0.0065	0.008	80	97	D ² PAK/I ² PAK
STP80NF55-06	55	0.0065	-	80	190	TO-220
STP80NF55L-06	55	0.0065	0.008	80	97	TO-220
STB80NF55L-08-1	55	0.008	0.01	80	110	I ² PAK
STB80NF55-08	55	0.008	-	80	108	D2PAK
STP80NF55L-08	55	0.008	0.01	80	110	TO-220
STP80NF55-08	55	0.008	-	80	108	TO-220
STD60NF55L/-1	55	0.015	0.017	60	-	DPAK/IPAK
STB80NE06-10	60	0.01	-	80	140	D ² PAK
STP80NE06-10	60	0.01	-	80	140	TO-220
STW80NE06-10	60	0.01	-	80	140	TO-247
STB60NF06/-1	60	0.014	-	60	-	D ² PAK/I ² PAK

POWER MOSFETs

Contd.

Part Number	V _{DSS} (V)	R _{DS(on)} @ 10V (Ω)	R _{DS(on)} @ 4.5V (W)	I _{D(cont)} (A)	Q _g @ 10V (Typ) (nC)	Package
STB60NF06L/-1	60	0.014	0.016	60	-	D ² PAK/I ² PAK
STP60NE06L-16FP	60	0.014	0.016	35	115	TO-220FP
STP60NF06	60	0.014	-	60	-	TO-220
STP60NF06FP	60	0.014	-	60	-	TO-220FP
STP60NF06L	60	0.014	0.016	60	-	TO-220
STP60NF06LFP	60	0.014	0.016	60	-	TO-220FP
STV60NF06	60	0.014	-	60	-	PowerSO-10
STV60NF06L	60	0.014	0.016	60	-	PowerSO-10
STB60NE06-16	60	0.016	-	60	115	D ² PAK/I ² PAK
STB60NE06L-16	60	0.016	0.018	60	115	D ² PAK
STP60NE06-16	60	0.016	-	60	55	TO-220
STP60NE06-16FP	60	0.016	-	35	115	TO-220FP
STP60NE06L-16	60	0.016	0.014	60	55	TO-220
STB55NE06	60	0.022	-	55	80	D ² PAK
STB55NE06L	60	0.022	0.028	55	80	D ² PAK
STB55NF06	60	0.022	0.028	55	-	D2PAK
STD35NF06	60	0.022	-	35	-	DPAK
STD35NF06L	60	0.022	0.028	35	-	DPAK
STP55NE06FP	60	0.022	-	50	60	TO-220FP
STP55NE06L	60	0.022	0.028	55	40	TO-220
STP55NE06LFP	60	0.022	0.028	28	80	TO-220FP
STP55NF06	60	0.022	-	55	40	TO-220
STP55NF06FP	60	0.022	-	55	40	TO-220FP
STP55NF06L	60	0.022	0.028	55	-	TO-220
STP55NF06LFP	60	0.022	0.028	55	60	TO-220FP
STS7NF60L	60	0.022	0.028	7	-	SO-8
STB45NF06	60	0.028	-	38	43	D ² PAK
STB45NF06L	60	0.028	0.03	38	43	D ² PAK
STD30NE06	60	0.028	0.03	30	60	DPAK
STD30NE06L	60	0.028	0.03	30	60	DPAK
STD30NF06L/-1	60	0.028	0.03	28	43	DPAK/IPAK
STP38NF06L	60	0.028	-	38	-	TO-220
STP45NE06	60	0.028	-	45	60	TO-220
STP45NE06FP	60	0.028	-	25	60	TO-220FP
STP45NE06L	60	0.028	0.03	45	60	TO-220
STP45NE06LFP	60	0.028	0.03	25	60	TO-220FP
STP45NF06L	60	0.028	0.03	38	43	TO-220
STP45NF06L	60	0.028	-	45	43	TO-220
STD20NE06	60	0.04	-	20	50	DPAK
STP36NE06	60	0.04	-	36	50	TO-220
STP36NE06FP	60	0.04	-	20	50	TO-220FP
STD19NE06/-1	60	0.05	-	19	40	DPAK/IPAK
STD19NE06L/-1	60	0.05	0.06	19	40	DPAK/IPAK
STP30NE06FP	60	0.05	-	30	40	TO-220FP
STP30NE06L	60	0.05	0.06	30	40	TO-220
STP30NE06LFP	60	0.05	0.06	17	40	TO-220FP
STS4DNF60L	60	0.055	0.065	4	15	SO-8
STS5NF60L	60	0.055	0.065	5	15	SO-8
STP20NE06L	60	0.07	0.085	20	28	TO-220
STP20NE06LFP	60	0.07	0.085	13	28	TO-220FP
STS3DNE60L	60	0.08	0.1	3	-	SO-8
STP20NE06FP	60	0.085	-	13	28	TO-220FP
STD12NF06	60	0.1	-	12	-	DPAK
STD12NF06L	60	0.1	-	12	-	DPAK
STN3NE06	60	0.1	-	2	13	SOT-223
STN3NE06L	60	0.1	0.12	2	13	SOT-223
STN3NE06L	60	0.1	0.12	2	13	SOT-223
STN3NF06	60	0.1	-	2	13	SOT-223
STP14NF06FP	60	0.1	-	14	-	TO-220FP
STP16NF06	60	0.1	-	16	-	TO-220
STP16NF06FP	60	0.1	-	11	20	TO-220FP
STP16NF06L	60	0.1	0.12	16	-	TO-220
STP16NF06LFP	60	0.1	0.12	10	-	TO-220FP
STP14NF06	60	0.12	-	14	-	TO-220

Part Number	V _{DSS} (V)	R _{DS(on)} @ 10V (Ω)	R _{DS(on)} @ 4.5V (W)	I _{D(cont)} (A)	Q _g @ 10V (Typ) (nC)	Package
STP14NF06L	60	0.12	0.14	14	-	TO-220
MTP3055E	60	0.15	-	12	15	TO-220
STN2NF06	60	0.15	-	2	20	SOT-223
STS2DNE60	60	0.23	-	2	12	SO-8
STN2NE06	60	0.25	-	2	12	SOT-223
STD16NE06	60	0.85	-	16	28	DPAK
STD16NE06L	60	0.85	0.085	16	28	DPAK
STB80NF75L/-1	75	0.01	0.013	80	-	D ² PAK/I ² PAK
STP80NF75L	75	0.01	0.013	80	-	TO-220
STB75NF75	75	0.013	-	75	-	D ² PAK
STB75NF75L	75	0.013	-	75	-	I ² PAK
STB75NE75	75	0.013	-	75	150	I ² PAK
STP75NE75	75	0.013	-	75	-	TO-220
STP75NF75	75	0.013	-	75	-	TO-220
STP75NF75L	75	0.013	-	75	-	TO-220
STB50NE08	80	0.024	-	50	85	D ² PAK
STP50NE08	80	0.024	-	50	85	TO-220
STE180NE10	100	0.006	-	180	142	ISOTOP
STB80NF10	100	0.018	-	80	140	D ² PAK
STP80NF10	100	0.018	-	80	140	TO-220
STW60NE10	100	0.022	-	60	142	TO-247
STP60NE10	100	0.022	-	60	142	TO-220
STB50NE10L	100	0.025	0.03	50	82	D ² PAK
STP50NE10L	100	0.025	0.03	50	82	TO-220
STW55NE10	100	0.027	-	55	123	TO-247
STP50NE10	100	0.028	-	50	82	TO-220
STB40NF10L	100	0.032	0.036	40	-	D ² PAK
STP40NF10L	100	0.032	0.036	40	-	TO-220
STB40NF10	100	0.035	-	40	60	D ² PAK
STP40NF10	100	0.035	-	40	60	TO-220
STB35NF10	100	0.045	-	35	55	D ² PAK
STP35NF10	100	0.045	-	35	55	TO-220
STD25NF10	100	0.048	-	25	-	D ² PAK
STB30NF10	100	0.07	-	30	80	D ² PAK
STB24NF10	100	0.077	-	24	30	D ² PAK
IRF540	100	0.077	-	30	80	TO-220
STP24NF10	100	0.077	-	14	30	TO-220
STD15NF10	100	0.08	-	15	30	D ² PAK
STB22NE10L	100	0.085	-	22	-	D ² PAK
STP22NE10L	100	0.085	0.1	22	48	TO-220
STD16NE10L	100	0.085	0.1	16	48	D ² PAK
STD16NE10	100	0.085	-	16	48	D ² PAK
STP20NE10	100	0.1	-	20	38	TO-220
IRF530	100	0.16	-	16	32	TO-220
STP30NF10	100	0.17	-	30	80	TO-220
STB14NF10	100	0.18	-	14	15.5	D ² PAK
STP14NF10	100	0.18	-	14	15.5	TO-220
STD10NF10	100	0.18	-	10	15.3	D ² PAK
STS2NF100	100	0.25	-	2	12	SO-8
STN2NF10	100	0.25	-	2	12	SOT-223
STD6NF10	100	0.25	-	6	12	D ² PAK
IRF520FI	100	0.27	-	7	15	TO-220 FP
STN2N10	100	0.27	-	2	21	SOT-223
IRF520	100	0.27	-	10	15	TO-220
STN2NE10L	100	0.4	0.45	1.8	10	SOT-223
STN2NE10	100	0.4	-	1.8	10	SOT-223
STP7NE10L	100	0.4	0.45	7	10	TO-220
STP7NE10	100	0.4	-	7	10	TO-220
STD5NE10/-1	100	0.4	-	5	10	DPAK/IPAK
STD5NE10L/-1	100	0.4	0.45	-	10	DPAK/IPAK
STN1NF10	100	0.8	-	1	4.5	SOT-223
STW40NS15	150	0.052	-	50	100	TO-247
STB40NS15	150	0.052	-	40	100	D ² PAK
STS5NS150	150	0.065	-	5	65	SO-8
STB30NS15-1	150	0.065	-	30	65	I ² PAK

POWER MOSFETs

HIGH VOLTAGE

Part Number	V _{DSS} (V)	R _{DS(on)} @ 10V (Ω)	I _{D(cont)} (A)	Q _g @ 10V (Typ) (nC)	Package
STD3PS25	-250	3.2	2.5	-	DPAK
STE110NA20	200	0.019	110	470	ISOTOP
STE110NS20FD	200	0.022	110	380	ISOTOP
STY100NS20FD	200	0.022	100	380	Max247
STY60NA20	200	0.032	60	70	Max247
STW50NB20	200	0.055	50	84	TO-247
STU36NB20	200	0.065	36	70	Max220
STW38NB20	200	0.065	38	70	TO-247
STW34NB20	200	0.075	34	60	TO-247
IRFP250	200	0.085	33	117	TO-247
IRF640FP	200	0.18	18	55	TO-220FP
STB19NB20	200	0.18	19	29	D ² PAK
STP19NB20FP	200	0.18	10	29	TO-220FP
IRF630FP	200	0.4	9	31	TO-220FP
STB10NB20	200	0.4	10	17	D ² PAK
STD7NB20	200	0.4	7	17	DPAK
STD7NS20	200	0.4	7	31	DPAK
STP10NB20FP	200	0.4	6	17	TO-220FP
IRF620FP	200	0.8	6	19	TO-220FP
STD5N20	200	0.8	5	19	DPAK
STD5NB20-1	200	0.8	5	12	IPAK
STD4N20/-1	200	1.5	4	-	DPAK/IPAK
STN1N20	200	1.5	1	13	SOT-223
STB16NB25	250	0.28	16	29	D ² PAK
STB16NS25	250	0.28	16	-	D ² PAK
STP16NB25FP	250	0.28	16	29	TO-220FP
STP6NB25	250	1.1	6	12	TO-220
STP6NB25FP	250	1.1	3.7	12	TO-220FP
STS1C1S250	250	1.5 / 3.2	0.8/0.56	15/16	SO-8
STP12NB30	300	0.4	12	29	TO-220
STP12NB30FP	300	0.4	6.5	29	TO-220FP
STD5NB30	300	0.9	5	17	DPAK
STP7NB30	300	0.9	7	17	TO-220
STP7NB30FP	300	0.9	4	17	TO-220FP
STD3NB30	300	2	3.2	12	DPAK
STP4NB30	300	2	4	12	TO-220
STP4NB30FP	300	2	2.8	12	TO-220FP
STH18NB40FI	400	0.26	12.4	60	ISOWATT218
STW18NB40	400	0.26	18.4	60	TO-247
IRF740	400	0.55	10	35	TO-220
STB11NB40/-1	400	0.55	10	29.5	D ² PAK/I ² PAK
STP11NB40	400	0.55	10.7	29	TO-220
STP11NB40FP	400	0.55	6	29	TO-220FP
STB7NB40	400	0.9	7	21	D ² PAK
STP7NB40	400	0.9	7	21	TO-220
STP7NB40FP	400	0.9	4.4	21	TO-220FP
IRF730	400	1	5.5	-	TO-220
STB5NB40	400	1.8	5	-	D ² PAK
STD4NB40	400	1.8	3.7	-	DPAK
STP5NB40	400	1.8	4.7	14.5	TO-220
STP5NB40FP	400	1.8	3.1	14.5	TO-220FP
STD2NC40/-1	400	5.5	1.5	4	DPAK/IPAK
STD1NB40-1	400	10	1	-	IPAK
STW45NM50	500	0.1	45	100	TO-247
STY34NB50	500	0.13	34	159	Max-247
STY34NB50F	500	0.14	34	140	Max-247
STW20NB50	500	0.25	20	85	TO-247
IRFP460	500	0.27	18	100	TO-247
STU16NC50	500	0.27	16	95	Max220
STW20NC50	500	0.27	18.4	95	TO-247
STU16NB50	500	0.33	15.6	67	Max220
STU16NB50I	500	0.33	15.6	67	Max220I
STB12NM50/-1	500	0.35	12	28	D ² PAK/I ² PAK
STP12NM50	500	0.35	12	28	TO-220

Part Number	V _{DSS} (V)	R _{DS(on)} @ 10V (Ω)	I _{D(cont)} (A)	Q _g @ 10V (Typ) (nC)	Package
STP12NM50FP	500	0.35	12	28	TO-220FP
STW14NM50	500	0.35	14	28	TO-247
STH15NB50FI	500	0.36	10.5	60	ISOWATT218
STW15NB50	500	0.36	14.6	60	TO-247
IRFP450	500	0.4	14	75	TO-247
STU13NC50	500	0.4	13	75	Max220
STW14NC50	500	0.4	14	65	TO-247
STU13NB50	500	0.45	13	50	Max220
STU13NB50I	500	0.45	13	-	Max220I
STW14NB50	500	0.45	14	50	TO-247
STB10NC50/-1	500	0.52	10	41	D ² PAK/I ² PAK
STP10NC50	500	0.52	10	41	TO-220
STP10NC50FP	500	0.52	10	41	TO-220FP
STW12NC50	500	0.52	10	41	TO-247
STB10NB50	500	0.6	10.6	38	D2PAK
STP10NB50	500	0.6	10.6	38	TO-220
STP10NB50FP	500	0.6	10.6	38	TO-220FP
STD5NM50/-1	500	0.8	5	13	DPAK/IPAK
STB8NC50/-1	500	0.85	8	36	D ² PAK/I ² PAK
STB9NB50	500	0.85	8.6	32	D ² PAK
STP8NC50	500	0.85	8	36	TO-220
STP8NC50FP	500	0.85	8	36	TO-220FP
STP9NB50	500	0.85	8.6	32	TO-220
STP9NB50FP	500	0.85	4.9	32	TO-220FP
IRF830	500	1.5	4.5	22	TO-220
STB6NB50/-1	500	1.5	6	21	D ² PAK/I ² PAK
STD4NC50/-1	500	1.5	3.7	18	DPAK/IPAK
STP5NC50	500	1.5	5.5	18	TO-220
STP5NC50FP	500	1.5	5.5	18	TO-220FP
STP6NB50	500	1.5	5.8	20.5	TO-220
STP6NB50FP	500	1.5	3.4	20.5	TO-220FP
STD3NC50/-1	500	2.7	3	15	DPAK/IPAK
STP4NC50	500	2.7	4	12.5	TO-220
STP4NC50FP	500	2.7	4	12.5	TO-220FP
STD3NB50/-1	500	2.8	3	15	DPAK/IPAK
STP4NB50	500	2.8	3.8	14.5	TO-220
STP4NB50FP	500	2.8	2.5	14.5	TO-220FP
IRF820	500	3	2.5	12	TO-220
STD2NB50/-1	500	6	1	7	DPAK/IPAK
STD1NB50-1	500	9	1.4	9	IPAK
STE40NA60	600	0.135	40	460	ISOTOP
STY25NA60	600	0.24	25	240	Max247
STW16NB60	600	0.35	16	85	TO-247
STB11NM60/-1	600	0.45	11	30	D ² PAK/I ² PAK
STP11NM60	600	0.45	11	30	TO-220
STU13NB60	600	0.45	12.6	65	Max220
STU13NB60I	600	0.45	12.6	65	Max220I
STH13NB60FI	600	0.54	8.6	58	ISOWATT218
STW13NB60	600	0.54	13	58	TO-247
STU11NB60	600	0.55	10.7	65	Max220
STU11NB60I	600	0.55	10.7	65	Max220I
STU11NC60	600	0.55	11	65	Max220
STW12NC60	600	0.55	12	65	TO-247
STW12NB60	600	0.65	12	-	TO-247
STB9NC60/-1	600	0.75	9	55	D ² PAK/I ² PAK
STP9NC60	600	0.75	9	44	TO-220
STP9NC60FP	600	0.75	9	44	TO-220FP
STW10NC60	600	0.75	10	40	TO-247
STB9NB60/-1	600	0.8	9	40	D ² PAK/I ² PAK
STP9NB60	600	0.8	9	40	TO-220
STP9NB60FP	600	0.8	5.2	40	TO-220FP
STW10NB60	600	0.8	10	40	TO-247
STD5NM60/-1	600	1	5	13	DPAK/IPAK
IRFBC40	600	1.2	6.2	38	TO-220
STB6NC60	600	1.2	-	35	D ² PAK
STB7NB60/-1	600	1.2	7.2	30	D ² PAK/I ² PAK

POWER MOSFETs

Contd.

Part Number	V _{DSS} (V)	R _{DS(on)} @ 10V (Ω)	I _{D(cont)} (A)	Q _g @ 10V (Typ) (nC)	Package
STP6NC60	600	1.2	6	35	TO-220
STP6NC60FP	600	1.2	6	35	TO-220FP
STP7NB60	600	1.2	7.2	30	TO-220
STP7NB60FP	600	1.2	4.1	30	TO-220FP
STB4NC60/-1	600	1.8	4.2	16.5	D ² PAK/I ² PAK
STB5NB60/-1	600	2	5	21	D ² PAK/I ² PAK
STP5NB60	600	2	5.3	21	TO-220
STP5NB60FP	600	2	3	21	TO-220FP
IRFBC30	600	2.2	3.6	21	TO-220
STD3NC60/-1	600	2.2	3.2	18	DPAK/IPAK
STP4NC60	600	2.2	4.2	16.5	TO-220
STP4NC60FP	600	2.2	4.2	16.5	TO-220FP
STB3NB60/-1	600	3.6	3	15	D ² PAK/I ² PAK
STB3NC60/-1	600	3.6	3	13	D ² PAK/I ² PAK
STD2NB60	600	3.6	2.6	15	DPAK
STD2NC60/-1	600	3.6	2	15	DPAK/IPAK
STP3NB60	600	3.6	3.3	15	TO-220
STP3NB60FP	600	3.6	2.2	15	TO-220FP
STP3NC60	600	3.6	3	13	TO-220
STP3NC60FP	600	3.6	3	13	TO-220FP
STD1HNC60-1	600	5	1	-	IPAK
STD1NC60-1	600	8	1	-	IPAK
STD1NB60-1	600	8.5	1	7	IPAK
STD1LNC60-1	600	16	1	9.5	IPAK
STN1NC60	600	16	0.3	4	SOT-223
STS1DNC60	600	16	1	-	SO-8
STS1NC60	600	16	1	-	SO-8

VERY HIGH VOLTAGE

Part Number	V _{DSS} (V)	R _{DS(on)} @ 10V (Ω)	I _{D(cont)} (A)	Q _g @ 10V (Typ) (nC)	Package
STU10NC70Z	700	0.75	9.4	72	Max220
STU10NC70ZI	700	0.75	9.4	72	Max220I
STW10NC70Z	700	0.75	10.6	72	TO-247
STB8NC70Z/-1	700	1.2	6.8	60	D ² PAK/I ² PAK
STP8NC70Z	700	1.2	6.8	60	TO-220
STP8NC70ZFP	700	1.2	6.8	60	TO-220FP
STW9NC70Z	700	1.2	7.5	60	TO-247
STB7NC70Z/-1	700	1.38	6	47	D ² PAK/I ² PAK
STP7NC70Z	700	1.38	6	47	TO-220
STP7NC70ZFP	700	1.38	6	47	TO-220FP
STW8NC70Z	700	1.38	7	47	TO-247
STB5NC70Z	700	2	4.6	-	D ² PAK
STP5NC70Z	700	2	4.6	-	TO-220
STP5NC70ZFP	700	2	4.6	-	TO-220FP
STD2NC70Z/-1	700	4.5	1.7	-	DPAK/IPAK
STP3NC70Z	700	4.5	2.5	-	TO-220
STU10NB80	800	0.8	10	70	Max220
STU10NB80I	800	0.8	10	70	Max220I
STW11NB80	800	0.8	11	70	TO-247
STH9NC80ZFI	800	0.9	9.4	72.2	ISOWATT218
STU9NC80Z	800	0.9	8.6	71	Max220
STU9NC80ZI	800	0.9	8.6	72.2	Max220I
STW9NC80Z	800	0.9	9.4	71	TO-247
STU9NB80	800	1	9.3	53	Max220
STU9NB80I	800	1	9.3	53	Max220I
STB7NC80Z/-1	800	1.5	6	57	D ² PAK/I ² PAK
STP7NC80Z	800	1.5	6	57	TO-220
STP7NC80ZFP	800	1.5	6	57	TO-220FP
STW8NC80Z	800	1.5	6.7	57	TO-247
STP7NB80	800	1.6	6.5	40	TO-220
STP7NB80FP	800	1.6	7	40	TO-220FP
STW8NB80	800	1.6	7.5	40	TO-247
STB6NC80Z/-1	800	1.8	5.4	45	D ² PAK/I ² PAK
STP6NC80Z	800	1.8	5.4	45	TO-220

Part Number	V _{DSS} (V)	R _{DS(on)} @ 10V (Ω)	I _{D(cont)} (A)	Q _g @ 10V (Typ) (nC)	Package
STP6NC80ZFP	800	1.8	5.4	45	TO-220FP
STW7NC80Z	800	1.8	6	45	TO-247
STP6NB80	800	1.9	5.7	33	TO-220
STP6NB80FP	800	1.9	6	33	TO-220FP
STW7NB80	800	1.9	6.5	33	TO-247
STB5NB80	800	2.2	5	30	D ² PAK
STP5NB80	800	2.2	5	30	TO-220
STP5NB80FP	800	2.2	3	30	TO-220FP
STB4NC80Z/-1	800	2.8	4	-	D ² PAK/I ² PAK
STP4NC80Z	800	2.8	4	-	TO-220
STP4NC80ZFP	800	2.8	4	-	TO-220FP
STB4NB80	800	3.3	4	21	D ² PAK
STP4NB80	800	3.3	4	21	TO-220
STP4NB80FP	800	3.3	2.3	21	TO-220FP
STD2NB80/-1	800	6.5	1.9	17	DPAK/IPAK
STP3NB80	800	6.5	2.6	17	TO-220
STP3NB80FP	800	6.5	1.6	17	TO-220FP
STD1NB80/-1	800	20	1	10	DPAK/IPAK
STN1NB80	800	20	0.2	10	SOT-223
STE26NA90	900	0.3	26	470	ISOTOP
STY16NA90	900	0.54	16	245	Max247
STU8NB90	900	1	8.9	64	Max220
STU8NB90I	900	1	8.9	64	Max220I
STW9NB90	900	1	9.7	64	TO-247
STU8NC90Z	900	1.38	7	70	Max220
STU8NC90ZI	900	1.38	7	-	Max220I
STW8NC90Z	900	1.38	7.6	70	TO-247
STH8NB90FI	900	1.45	5	-	ISOWATT218
STU7NB90	900	1.45	7.4	51	Max220
STU7NB90I	900	1.45	7.4	51	Max220I
STW8NB90	900	1.45	8	51	TO-247
STP6NB90	900	1.9	6	40	TO-220
STP6NB90FP	900	1.9	6	40	TO-220FP
STB6NC90Z/-1	900	2	5.3	51	D ² PAK/I ² PAK
STB6NC90Z/-1	900	2	5.3	51	D ² PAK/I ² PAK
STP6NC90Z	900	2	5.3	52	TO-220
STP6NC90ZFP	900	2	5.3	52	TO-220FP
STW6NB90	900	2	6.3	40	TO-247
STW7NC90Z	900	2	5.8	52	TO-247
STB5NC90Z/-1	900	2.5	4.6	40	D ² PAK/I ² PAK
STB5NC90Z/-1	900	2.5	4.6	40	D ² PAK/I ² PAK
STP5NB90	900	2.5	5	33	TO-220
STP5NB90FP	900	2.5	5	33	TO-220FP
STP5NC90Z	900	2.5	4.6	40	TO-220
STP5NC90ZFP	900	2.5	4.6	40	TO-220FP
STW5NB90	900	2.5	5.6	33	TO-247
STW6NC90Z	900	2.5	5.2	40	TO-247
STP4NB90	900	2.9	4.4	30	TO-220
STP4NB90FP	900	2.9	2.5	30	TO-220FP
STB3NC90Z/-1	900	3.5	3.5	40	D ² PAK/I ² PAK
STB3NC90Z/-1	900	3.5	3.5	40	D ² PAK/I ² PAK
STP3NC90Z	900	3.5	3.5	40	TO-220
STP3NC90ZFP	900	3.5	3.5	40	TO-220FP
STP3NB90	900	4.2	3.5	21	TO-220
STP3NB90FP	900	4.2	2	21	TO-220FP
STE24NA100	1000	0.375	24	470	ISOTOP
STE15NA100	1000	0.77	15	470	ISOTOP
STY15NA100	1000	0.77	15	470	Max247
STU7NB100	1000	1.5	7	-	Max220
STU7NB100I	1000	1.5	7	-	Max220I
STW8NB100	1000	1.8	7.3	68	TO-247
STP5NB100	1000	2.7	5	39	TO-220
STP5NB100FP	1000	2.7	5	39	TO-220FP
STW6NB100	1000	2.8	5.4	39	TO-247
STP4NB100	1000	4.4	4.4	32	TO-220
STP4NB100FP	1000	4.4	4.4	32	TO-220FP
STW5NB100	1000	4.4	4.3	32	TO-247
STP3NB100	1000	6	3	22	TO-220
STP3NB100FP	1000	6	1.8	22	TO-220FP

SMALL SIGNAL

NPN GENERAL PURPOSE TRANSISTORS IN TO-18

P / N	V _{CEO} (V)	h _{FE} min @ I _C	h _{FE} max @ I _C	I _C (h _{FE}) (mA)	V _{CE(sat)} max @ I _C /I _B (V)	I _C (V _{CE(sat)} max) (mA)	I _B (V _{CE(sat)} max) (mA)	f _T min (MHz)	P _{tot} (mW)
2N2219	30	100	300	150	1.6	500	50	250	500
2N2219A	40	100	300	150	1	500	50	250	500
2N2222	30	100	300	150	1.6	500	50	250	500
2N2222A	40	100	300	150	1	500	50	250	500
2N720A	80	40		150	5	150	15	50	500
2N3700	80	100	300	150	0.5	500	50	-	500

NPN GENERAL PURPOSE TRANSISTORS IN TO-39

P / N	V _{CEO} (V)	h _{FE} min @ I _C	h _{FE} max @ I _C	I _C (h _{FE}) (A)	V _{CE(sat)} max @ I _C /I _B (V)	I _C (V _{CE(sat)}) (mA)	I _B (V _{CE(sat)}) (mA)	f _T min (MHz)	P _{tot} (mW)
BC141	60	40	250	100	-	500	50	50	800
BFY51	30	40	-	150	0.35	150	15	50	800
BFY50	35	30	30	150	0.2	150	15	60	800
2N1613	-	40	120	150	1.5	150	15	60	800
2N1711	-	100	300	150	1.5	150	15	70	800
2N2102	65	40	120	150	0.5	150	15	60	1000
2N1893	80	40	120	150	1.5	150	15	50	800
2N3019	80	100	300	150	0.5	500	50	100	800
2N5321	50	40	250	500	0.8	500	50	50	1000
2N5320	75	30	130	500	0.5	500	50	50	-

PNP GENERAL PURPOSE TRANSISTORS IN TO-18

P / N	V _{CEO} (V)	h _{FE} min @ I _C	h _{FE} max @ I _C	I _C (h _{FE}) (mA)	V _{CE(sat)} max @ I _C /I _B (V)	I _C (V _{CE(sat)}) (mA)	I _B (V _{CE(sat)}) (mA)	f _T min (MHz)	P _{tot} (mW)
2N2905	40	100	300	150	0.4	150	15	200	400
2N2905A	60	100	300	150	0.4	150	15	200	400
2N2907	40	100	300	150	0.4	150	15	200	400
2N2907A	60	100	300	150	0.4	150	15	200	400

PNP GENERAL PURPOSE TRANSISTORS IN TO-39

P / N	V _{CEO} (V)	h _{FE} min @ I _C	h _{FE} max @ I _C	I _C (h _{FE}) (mA)	V _{CE(sat)} max @ I _C /I _B (V)	I _C (V _{CE(sat)}) (mA)	I _B (V _{CE(sat)}) (mA)	f _T min (MHz)	P _{tot} (mW)
2N4033	80	100	300	100	0.5	10	10	150	800
2N4036	65	20	140	500	0.65	-	-	-	60
2N5323	50	40	250	500	1.2	10	10	50	1000
2N5322	75	30	130	500	0.7	10	10	50	1000
BC161	60	30	250	100	-	10	10	50	650

NPN TRANSISTORS FOR LOW NOISE APPLICATIONS IN TO-18

P / N	V _{CEO} (V)	h _{FE} min @ I _C	h _{FE} max @ I _C	I _C (h _{FE}) (mA)	V _{CE(sat)} max @ I _C /I _B (V)	I _C (V _{CE(sat)} max) (mA)	I _B (V _{CE(sat)} max) (mA)	f _T min (MHz)	N _F max (dB)	P _{tot} (mW)
BC108	20	110	800	2	0.6	100	5	100	10	300
BCY58	32	120	630	2	0.7	100	2.5	-	6	390
BC107	45	110	450	2	0.6	100	5	100	10	300
BCY59	45	120	630	2	0.7	100	2.5	100	6	360

PNP TRANSISTORS FOR LOW LEVEL, LOW NOISE APPLICATION IN TO-18

P / N	V _{CEO} (V)	h _{FE} min @ I _C	h _{FE} max @ I _C	I _C (h _{FE}) (mA)	V _{CE(sat)} max @ I _C /I _B (V)	I _C (V _{CE(sat)} max) (mA)	I _B (V _{CE(sat)} max) (mA)	f _T typ (MHz)	N _F max (dB)	P _{tot} (mW)
BCY79	45	120	460	2	0.8	100	2.5	180 typ	6	390
BC177	45	125	500	2	0.25	10	0.5	200 typ	10	300

HIGH VOLTAGE TRANSISTORS

P / N	Polarity	V _{CEO} (V)	h _{FE} min @ I _C	h _{FE} max @ I _C	I _C (h _{FE}) (mA)	V _{CE(sat)} max @ I _C /I _B (V)	I _C (V _{CE(sat)} max) (mA)	I _B (V _{CE(sat)} max) (mA)	f _T min (MHz)	P _{tot} (mW)	Package
BFW43	PNP	150	40	-	10	0.5	10	1	60	400	TO-18
BC394	NPN	180	30	-	10	0.3	10	1	50	400	TO-18
BC393	PNP	180	50	-	10	0.3	10	1	50	400	TO-18
BF257	NPN	160	25	-	30	1	30	6	-	1000	TO-39
2N5415S	PNP	200	30	150	10	2.5	50	5	15	1000	TO-39
BF259	NPN	300	25	-	30	1	30	6	-	1000	TO-39
BF258	NPN	250	25	-	30	1	30	6	-	1000	TO-39

NPN TRANSISTORS FOR AND ULTRA FAST SWITCHING

P / N	V _{CEO} (V)	h _{FE} min @ I _C	h _{FE} max @ I _C	I _C (h _{FE}) (mA)	V _{CE(sat)} max @ I _C /I _B (V)	I _C (V _{CE(sat)} max) (mA)	I _B (V _{CE(sat)} max) (mA)	f _T min (MHz)	P _{tot} (mW)	Package
BSX20	15	40	120	10	0.6	100	10	450	360	TO-18
2N2369	15	40	120	10	0.25	10	1	500	360	TO-18
2N2369A	15	40	120	10	0.2	10	1	500	360	TO-18
2N4014	50	50	150	100	0.52	500	50	300	360	TO-18
BSX32	40	60	150	100	0.5	500	50	300	800	TO-39
2N3725	50	60	150	100	0.52	500	50	300	800	TO-39

IGBTs

Part Number	Features (A)	Current @ 100°C (V)	Voltage	Package
STGB20NB32LZ	Logic level fully clamped	20	350	D ² PAK
STGB10NB37LZ	Logic level, Fully clamped	10	370	D ² PAK
STGB20NB37LZ	Logic level fully clamped	20	400	D ² PAK
STGB10NB60L	Logic level, Low Drop	10	600	D ² PAK
STGP10NB60L	Logic level, Low Drop	10	600	TO-247
STGD3NB60S	Low Drop	3	600	DPAK
STGD3NB60SD	Low Drop	3	600	DPAK
STGD7NB60S	Low Drop	7	600	DPAK
STGP10NB60S	Low Drop	10	600	TO-220
STGD3NB60H	Fast Switching	3	600	DPAK
STGP3NB60H	Fast Switching	3	600	TO-220
STGD7NB60H	Fast Switching	7	600	DPAK
STGD7NB60H-1	Fast Switching	7	600	IPAK
STGP7NB60H	Fast Switching	7	600	TO-220
STGP12NB60H	Fast Switching	12	600	TO-220
STGW12NB60H	Fast Switching	12	600	TO-247
STGP20NB60K*	Short circuit rugged	20	600	TO-220
STGP20NB60H	Fast Switching	20	600	TO-220
STGW20NB60H	Fast Switching	20	600	TO-247
STGW30NB60H	Fast Switching	30	600	TO-247
STGW50NB60H	Fast Switching	50	600	TO-247
STGB3NB60HD	Fast Switching + Freewheeling Diode	3	600	D2PAK
STGP3NB60HD	Fast Switching + Freewheeling Diode	3	600	TO-220
STGP3NB60HDFP	Fast Switching + Freewheeling Diode	3	600	TO-220FP
STGB7NB60HD	Fast Switching + Freewheeling Diode	7	600	D ² PAK
STGP7NB60HD	Fast Switching + Freewheeling Diode	7	600	TO-220
STGP7NB60HDFP	Fast Switching + Freewheeling Diode	7	600	TO-220FP
STGW12NB60HD	Fast Switching + Freewheeling Diode	12	600	TO-247
STGW20NB60HD	Fast Switching + Freewheeling Diode	20	600	TO-247
STGW30NB60HD	Fast Switching + Freewheeling Diode	30	600	TO-247
STGY50NB60HD	Fast Switching + Freewheeling Diode	50	600	Max247
STGE50NB60HD	Fast Switching + Freewheeling Diode	50	600	ISOTOP
STGW25NB120K	Short circuit rugged	25	1200	TO-247

HF TRANSISTORS pdf

2-30 MHz CLASS AB LINEAR COMMON EMITTER HF/SSB

Part Number	Industry P/N	Freq. (MHz)	P _{out} (W)	Gain (dB)	H _{fe} Range	V _{CC} (V)	Class	R _{THj-c} (°C/W)	IMD (dB)	Package
SD1405 ¹	-	30	75	13	-	12.5	AB	0.65	-32	M174
SD1487	-	30	100	11	-	12.5	AB	0.6	-30	M174
SD1407 ¹	-	30	125	15	-	28	AB	0.65	-30	M174
SD1407-16 ²	-	30	125	15	Matched Pairs	28	AB	0.65	-30	M174
SD1729	TH416	30	130	12	-	28	AB	1	-30	M174
SD1729-12 ³	-	30	130	12	Matched Pairs	28	AB	1	-30	M174
SD1730	TH560	30	220	12	-	28	AB	0.6	-30	M174
SD1411	-	30	200	16	-	40	AB	0.36	-30	M153
SD1733	TH513	30	75	14	-	50	AB	2	-30	M135
SD1726	THA15	30	150	14	-	50	AB	0.75	-30	M174
SD1727	THX15	30	150	14	-	50	AB	0.75	-30	M164
SD1727-05 ⁴	-	30	150	14	22.5 to 27.0	50	AB	0.75	-30	M164
SD1731	TH562	30	220	13	-	50	AB	0.55	-30	M174
SD1731-14	-	30	250	12	-	50	AB	0.48	-30	M174
SD1728	TH430	30	250	14.5	-	50	AB	0.4	-30	M177 ⁵
SD1728-01 ⁶	-	30	250	14.5	23.0 to 32.0	50	AB	0.4	-30	M177 ⁵
SD1728-03 ⁶	-	30	250	14.5	22.5 to 27.0	50	AB	0.4	-30	M177 ⁵
SD1728-11 ⁶	-	30	250	14.5	22.0 to 32.0	50	AB	0.4	-30	M177 ⁵
SD1728-15 ⁶	-	30	250	14.5	23.0 to 45.0	50	AB	0.4	-30	M177 ⁵
SD1728-20 ⁶	-	30	250	14.5	27.0 to 80.0	50	AB	0.4	-30	M177 ⁵
SD1728-10	-	30	250	14.5	19.0 to 32.0	50	AB	0.4	-30	M177 ⁷

¹ Tested Class C - ² Add suffix to SD1407 Part Number for Hfe selection - ³ Add suffix to SD1729 Part Number for Hfe selection

⁴ Add suffix to SD1727 Part Number for Hfe selection - ⁵ Grounded Emitter - ⁶ Add suffix to SD1728 Part Number for Hfe selection

⁷ Isolated Emitter.

VHF TRANSISTORS

27-88 MHz CLASS C, COMMON EMITTER

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Class	R _{THj-c} (°C/W)	Package
SD1446	50	70	10	12.5	C	1.05	M113
SD1405	50	100	7	12.5	C	0.65	M174

136-175 MHz CLASS C, COMMON EMITTER

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Class	R _{THj-c} (°C/W)	Package
SD1134-05*	150	1.4	11.5	7.5	C	35.0	M123
SD1135-03*	150	2.5	11	7.5	C	11.6	M123
SD1274	160	30	10	13.6	C	1.20	M135
SD1274-01	160	30	10	13.6	C	1.20	M113
SD1275	160	40	9	13.6	C	1.20	M135
SD1275-01	160	40	9	13.6	C	1.20	M113
SD1477	175	100	6	12.5	C	0.65	M111
SD1480	136 - 175	125	9.2	28	C	0.65	M111

* Not Recommended for new designs

RF POWER

FM & VHF TV TRANSISTORS

174-230 MHz COMMON EMITTER, VHF TV BAND III

P / N	Industry P/N	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Class	IMD (dB)	R _{THj-c} (°C/W)	Package
SD1458	TCC3100	225	14	14	28	A	-55	1.5	M111
SD1455		225	20	8.0	25	A	-51	1.5	M130
SD1459		225	20	7.5	28	A	-53	1.2	M164
SD1456		225	100	11	28	AB	-	1.2	M168

88-108 MHz COMMON EMITTER, FM BROADCAST

P / N	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Class	Efficiency (%)	R _{THj-c} (°C/W)	Package
SD1457	108	75	10	28	C	70	1.5	M174
SD1460	108	150	9.2	28	C	70	0.75	M174

MOSFET TRANSISTORS

2-400 MHz CLASS AB COMMON SOURCE N CHANNEL MOSFETS

P / N	Freq. (MHz)	P _{out} (W)	Gain min. (dB)	V _{CC}	Class (V)	Efficiency (%)	R _{THj-c} (°C/W)	Package
SD2900	400	5	13.5	28	AB	45	8	M113
SD2902	400	15	12.5	28	AB	45	3	M113
SD2903	400	30	13	28	AB	45	1.75	M229
SD2904	400	30	10	28	AB	45	1.75	M113
SD2918	30	30	18	50	AB	50	1.5	M113
SD2921-10	175	150	12.5	50	AB	55	0.45	M174*
SD2923	30	300	16	50	AB	50	0.27	M177*
SD2931	175	150	14	50	AB	55	0.6	M174
SD2931-10	175	150	14	50	AB	55	0.45	M174*
SD2932	175	300	15	50	AB	50	0.35	M244
SD2933	30	300	20	50	AB	50	0.27	M177*

* Low Thermal

UHF TRANSISTORS

450-512 MHz COMMON EMITTER

P / N	Freq. (MHz)	P _{out} (W)	Gain (dB)	Efficiency (%)	V _{CC} (V)	Class	R _{THj-c} (°C/W)	Package
SD1134*	470	2	10	-	12.5	C	35	M122
SD1135*	470	5	8.5	-	12.5	C	11.6	M122
SD1433	470	10	7.0	60	12.5	C	3	M122
SD1488	470	38	5.8	50	12.5	C	1.5	M111
SD1434	470	45	5.0	55	12.5	C	1	M111
SD4013	400	25	9.0	50	28	C	2.5	M111
SD1390	470	1.5	13	-	24	A	12	M123
SD1391	470	15	11	50	24	AB	6	M142
SD1393	470	50	8.5	60	24	AB	1.2	M169
SD1470	400	100	7	60	28	C	0.7	M111
SD1463**	400	125	7	60	28	C	0.65	M168

* Not Recommended for new designs - ** TCC0204-125

UHF TV/ LINEAR TRANSISTORS**470-860 MHz COMMON EMITTER, UHF TV-BAND IV & V**

P / N	Industry P/N	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Class	IMD (dB)	R _{THj-c} (°C/W)	Package
SD4011	-	860	4	8	25	A	-60	5.5	M122
SD1732	TDS595	860	14	8.5	25	A	-45	2.5	M156
SD4010	-	860	20	9.5	26.5	A	-48	1.9	M119
SD1490	-	860	25	8	25	A	-45	1.3	M173
SD1489	-	860	50	6.8	28	AB	-	1	M173
SD4100	-	860	100	8.5	28	AB	-	0.8	M173
SD1492	-	860	150	6.5	28	AB	-	0.55	M175

UHF RADAR TRANSISTORS**500 -1000 MHz CLASS C, COMMON BASE**

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	Pulse width (μs)	Duty cycle (%)	R _{THj-c} (°C/W)	Package
SD1563	400-500	300	9.5	40	55	250	10	0.2	M106
SD1565	400-500	500	9.7	40	50	250	10	0.15	M102
AM80610-030	620 - 960	30	8.5	28	50	-	CW	2.6	SO-42
AM0608-200*	600-750	220	8.7	50	40	10	1	0.2	SO-42
AM0608-450	600-750	445	6.9	50	35	10	1	0.13	SO-38

* Not Recommended for new designs

800-900 MHz TRANSISTORS**806-960 MHz CLASS C, COMMON BASE, FM MOBILE/BASE STATION**

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	R _{THj-c} (°C/W)	Package
SD1414	836	45	4.7	12.5	50	1.2	M142
SD1414-12	960	40	4.3	13.5	50	1.2	M142

860-960 MHz CLASS C AB LINEAR, COMMON EMITTER, CELLULAR

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	R _{THj-c} (°C/W)	Package
SD1398	960	6	10	24	50	3.3	M142
SD1423	960	15	8	24	45	6	M118
SD1424	960	30	7.5	24	45	2	M156
SD4017	860	30	7.5	25	55	2	M142
SD4701	960	45	8.5	26	50	1.2	M169
SD4600	960	60	7.5	26	50	1.2	M173
SD4590	900	150 PEP	8.5	26	35 PEP	0.6	M208

RF POWER

AVIONICS TRANSISTORS

1030-1090 MHz CLASS C, COMMON BASE, PULSED/IFF

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	Pulse width (μs)	Duty cycle (%)	R _{THj-c} (°C/W)	Package
MSC81350M	1090	350	7	50	40	10	1	0.2	SO-42
SD1541-09	1090	450	7	50	-	10	1	0.12	M112
MSC81450M	1090	450	7	50	40	10	1	0.15	SO-38
SD1542-04	1090	600	6	50	-	10	1	0.06	M112
SD1542-42	1090	600	6	50	35	10	1	0.06	M112

1030-1090 MHz CLASS C, COMMON BASE, PULSED/MODE-S, TCAS

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	Pulse width (μs)	Duty cycle (%)	R _{THj-c} (°C/W)	Package
AM1011-070	1090	70	6.7	28	45	100	2	0.68	SO-42
AM1011-075	1090	75	9.2	50	48	32	2	0.86	SO-36
AM1011-400	1090	400	8	50	45	32	2	0.17	SO-38
AM1011-500	1090	500	8.5	50	40	32	2	0.11	M198
AM1011-300	1090	325	7.7	40	40	200*	5*	0.14	M207

* Pulse conditions equivalent to Mode-S ground interrogator burst

1025-1150 MHz CLASS C, COMMON BASE, PULSED/DME

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	Pulse width (μs)	Duty cycle (%)	R _{THj-c} (°C/W)	Package
MSC1000M*	1025 - 1150	0.6	10.8	18	Class A	10	1	35	SO-58
MSC1000MP*	1025 - 1150	0.6	10.8	18	Class A	10	1	35	M115
MSC1004M	1025 - 1150	4	9	28	35	10	1	5	SO-68
MSC1004MP	1025 - 1150	4	9	28	35	10	1	5	M115
SD1528-06	1025 - 1150	15	10	50	30	10	1	2	M115
SD1528-08	1025 - 1150	15	10	50	30	10	1	2	M105
MSC81035M	1025 - 1150	35	10.7	50	40	10	1	1	SO-68
MSC81035MP	1025 - 1150	35	10.7	50	43	10	1	1	M115
SD1530-01	1025 - 1150	35	9	50	30	10	1	2	M115
SD1530-08	1025 - 1150	35	8.5	50	30	10	1	2	M105
SD1534-01	1025 - 1150	75	7.6	50	-	10	1	0.8	M115
SD1534-08	1025 - 1150	75	7.5	50	-	10	1	0.8	M105
SD1538-02	1025 - 1150	150	7.8	50	-	10	1	0.3	M103
SD1538-08	1025 - 1150	150	7.8	50	-	10	1	0.3	M138
MSC81250M	1025 - 1150	250	6.2	50	40	10	1	0.2	SO-42
MSC81325M	1025 - 1150	325	6.7	50	40	10	1	0.17	SO-42
SD1540	1025 - 1150	300	6.3	50	35	10	1	0.2	M103
SD1540-08	1025 - 1150	300	6.3	50	35	10	1	0.2	M138
SD1541-01	1025 - 1150	400	6.5	50	-	10	1	0.12	M112
MSC81400M	1025 - 1150	400	6.5	50	40	10	1	0.12	SO-38
SD1542	1025 - 1150	550	5.6	50	-	10	1	0.06	M112

* Common Emitter / Tested CW

960-1215 MHz CLASS C, COMMON BASE, PULSED/TACAN

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	Pulse width (μs)	Duty cycle (%)	R _{THj-c} (°C/W)	Package
AM0912-080	960 - 1215	90	8.4	50	38	10	10	0.8	SO-42
SD8250	960 - 1215	250	8	50	38	20	5	0.28	SO-36
AM0912-300	960 - 1215	300	7	50	38	10	10	0.16	SO-38

960-1215 MHz CLASS C, COMMON BASE, PULSED/JTIDS, MIDS

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	R _{THj-c} (°C/W)	Package
AM80912-005	960 - 1215	6	9.3	28	45	7	SO-64
AM80912-015	960 - 1215	15	8.1	28	45	3	SO-64
AM80912-030	960 - 1215	30	7.8	35	40	2.2	SO-36
AM80912-085	960 - 1215	85	7.5	35	40	0.75	SO-42
AM0912-150	960 - 1215	150	7.5	35	45	0.57	SO-38

Devices are characterized and tested under JTIDS pulse burst conditions

L-BAND RADAR TRANSISTORS

850-1600MHz CLASS C, COMMON BASE PULSED

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	Pulse width (μs)	Duty cycle (%)	R _{THj-c} (°C/W)	Package
AM80814-005	850 - 1400	5	8.5	28	35	120	4	6.5	SO-64
AM80814-025	850 - 1400	25	7	35	38	120	4	2.3	SO-36
AM81214-006	1215 - 1400	5.5	10	28	47	1000	10	9	SO-64
AM81214-015	1215 - 1400	14.5	8.6	28	48	1000	10	4	SO-64
AM81214-030	1215 - 1400	26	7.2	28	45	1000	10	2.4	SO-64
AM81214-060	1215 - 1400	55	6.6	28	50	1000	10	1.4	SO-42
AM1214-100	1215 - 1400	100	6	28	50	100	10	0.55	SO-38
AM1214-130*	1215 - 1400	130	8	50	40	100	10	0.45	M259
AM1214-175	1215 - 1400	160	7.3	40	45	150	5	0.45	SO-38
AM1214-200	1215 - 1400	200	7	40	45	150	5	0.26	M205
AM1214-250*	1215 - 1400	250	7	50	37	100	10	0.21	M259
AM1214-300	1235 - 1365	270	6.3	50	40	50	4	0.24	SO-38
AM1214-325	1200 - 1400	325	6.4	50	38	13	2	0.1	SO-38
AM1416-220	1450 - 1600	200	7	50	35	10	10	0.15	M239

* In development

S-BAND RADAR TRANSISTORS

2700-3500 MHz CLASS C, COMMON BASE, PULSED

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	Pulse width (μs)	Duty cycle (%)	R _{THj-c} (°C/W)	Package
AM82731-003	2700 - 3100	3	5.7	30	27	100	10	6.5	SO-42
AM82731-006	2700 - 3100	5.5	5.6	30	27	100	10	3.75	SO-42
AM83135-001	3100 - 3500	1	5.2	30	27	100	10	13	SO-42
AM83135-003	3100 - 3500	3	5.7	30	27	100	10	6.5	SO-42
AM83135-005	3100 - 3500	5	5.2	30	27	100	10	3.75	SO-42

RF POWER

1.6 GHz SATCOM TRANSISTORS 1500-1700 MHz CLASS C, COMMON BASE

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	R _{THj-c} (°C/W)	Package
SD1894	1650	4,5	10	28	50	14	M170
SD1891-03	1650	5	14	28	45	20	M151
SD1893-03	1650	10	11	28	45	5.5	M170
SD1897	1650	10	11	28	48	6	M170
SD1895-03	1650	20	9.2	28	48	4.7	M170
SD1888-03	1650	24	9	28	50	3.5	M170
SD1899	1650	30	9.3	28	45	2.7	M170
SD1898	1650	32	9	28	40	2	M186
AM1517-012 ¹	1600 - 1700 ²	12 ³	8.5	28	55	5.5	SO-42
AM1517-025 ¹	1600 - 1700 ²	25 ³	8.5	28	55	3.3	SO-42

¹ Add suffix M to AM1517 part number for band segment 1620 - 1660 or suffix S for band segment 1625 - 1675.

² Add suffix M to AM1517 part number for band segment 1620 - 1660 or suffix S for band segment 1625 - 1675.

³ AM1517 series vary Pin to achieve Pout; performances guaranteed in 50MHz increments.

TELEMETRY/COMMUNICATIONS TRANSISTORS 1700-2400MHz CLASS C, COMMON BASE, TELEMETRY/DATA LINK

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	R _{THj-c} (°C/W)	Package
AM81720-012	1700 - 2000	12	7.4	24	40	5.5	SO-36
AM81719-030	1750 - 1850	28	6.7	28	40	2.6	M147
AM81719-040	1750 - 1850	40	6.7	28	43	2.2	M228
AM82223-010	2200 - 2300	9	6.5	24	40	4.4	SO-42

GENERAL PURPOSE MICROWAVE TRANSISTORS 1000-3000 MHz CLASS C, COMMON BASE GENERAL PURPOSE

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	R _{THj-c} (°C/W)	Package
MSC81002	1000	2	10	28	50	20	SO-16
MSC81118	1000	2	10	28	50	20	SO-10
MSC81005	1000	5	10	28	50	8	SO-16
MSC81111	1000	5	10	28	50	8	SO-10
MSC81010	1000	10	10	28	60	6	SO-16
MSC81058	1000	10	10	28	60	6	SO-10
MSC81020	1000	20	10	28	55	5	SO-10
MSC81402	1400	2	10	28	50	25	SO-10
MSC82001	2000	1	7	28	35	20	SO-10
MSC82003	2000	3	7.8	28	35	8	SO-10
MSC82005	2000	5	7	28	35	6	SO-10
MSC82010	2000	10	5.2	28	35	5	SO-10
MSC82302	2300	1.8	10	22	40	25	SO-10
MSC82304	2300	3.8	10	22	40	13	SO-10
MSC82306	2300	5.5	9.6	22	40	9	SO-10
MSC82307	2300	7	9.6	22	40	7	SO-10
MSC83301	3000	1	7	28	33	25	SO-10
MSC83303	3000	2.5	5	28	30	12	SO-10
MSC83305	3000	4.5	4.5	28	30	8.5	SO-10

GENERAL PURPOSE LINEAR TRANSISTORS
1000-2000 MHz CLASS A, LINEAR, COMMON EMITTER

Part Number	Freq. (MHz)	P _{out} (dBm)	Gain (dB)	V _{CC} (V)	I _C (A)	R _{THj-c} (°C/W)	Package
MSC82100	1000	27	10.5	18	100	20	SO-11
MSC82040	1000	27	10.5	18	100	20	SO-27
SD5000	1000	31.8	9.5	20	220	20	M122
MSC80195	2000	28	7.5	18	140	35	SO-11
MSC80185	2000	28	7.5	18	140	35	SO-27
MSC80196	2000	30	7	18	220	17	SO-11
MSC80186	2000	30	7	18	220	17	SO-27
MSC80197	2000	31.7	6	18	360	8.5	SO-11

HYBRID POWER MODULES
300-1600 MHz, WLL, CELLULAR AND SATCOM APPLICATIONS

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Efficiency (%)	Package
STM915-16	890 - 915	16	42	12.5	35	H100
STM901-30	860 - 900	30 (PEP)	35	26	26	H141
STM961-15B	915 - 960	15	28	26	32	H110
STM1645-10	1625 - 1665	10	30	28	30	H150
STM1645-30	1625 - 1665	30	35	28	35	H160

LDMOS TRANSISTORS
HF-1000 MHz CLASS AB COMMON SOURCE - PowerSO-10 RF, PLASTIC PACKAGE, VHF/UHF AND 900 MHz CELLULAR

P / N	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Class	Efficiency (%)	R _{THj-c} (°C/W)	Package
PD54003	520	3	11	7.5	AB	50	1.8	PowerSO-10RF #
PD54008	520	8	11	7.5	AB	45	1.3	PowerSO-10RF #
PD55003	520	3	15	12.5	AB	55	3.0	PowerSO-10RF #
PD55008	520	8	15	12.5	AB	53	1.8	PowerSO-10RF #
PD55015	520	15	14	12.5	AB	50	1.3	PowerSO-10RF #
PD55025S*	520	25	14	12.5	AB	50	1.2	PowerSO-10RF #
PD57002	960	2	15	28	AB	50	20	PowerSO-10RF #
PD57006	960	6	15	28	AB	50	5	PowerSO-10RF #
PD57018	960	18	14	28	AB	50	3.0	PowerSO-10RF #
PD57030S	945	30	13	28	AB	50	1.8	PowerSO-10RF
PD57045S	945	45	13	28	AB	50	1.3	PowerSO-10RF
PD57050S*	945	60	13	28	AB	53	1.2	PowerSO-10RF

#Available in Straight Lead version by adding S suffix * In development

LDMOS TRANSISTORS
HF-1000 MHz CLASS AB COMMON SOURCE - UHF TV/900 MHz CELLULAR

Part Number	Freq. (MHz)	P _{out} (W)	Gain (dB)	V _{CC} (V)	Class	Efficiency (%)	R _{THj-c} (°C/W)	Package
SD57030 / -01	945	30	13	28	AB	50	1.75	M243 / M250
SD57045 / -01	945	45	13	28	AB	50	1.4	M243 / M250
SD57060 / -01	945	60	12	28	AB	50	1.1	M243 / M25
SD57070*	960	70	15	26	AB	50	-	- #
SD57085*	880	85	15	26	AB	45	-	M256 #
SD57085-02*	960	85	15	26	AB	50	-	- #
SD56120	860	100	13	28	AB	45	0.5	M246 #
SD56120M	860	120	12	28	AB	45	0.5	M246 #
SD57120	960	120	13	28	AB	45	0.55	M252 #
SD57170*	880	170	13	28	AB	45	-	M257#

* In development - # Internally Matched

RF SIGNAL

GPS

RF DOWN CONVERTERS, SATELLITE RECEIVER APPLICATIONS

P / N	Description	Features	V _{CC} (V)	Frequency (MHZ)	Package
STB5600	Down Converter for GPS	Low External Components	3.3	1575	TQFP32
STB5601	Down Converter for GPS	Low External Components	3	1575	TQFP32
STB5610*	Down Converter for GPS	PLL inside	2.7	1575	TQFP48

* In development

WIRELESS ICs

SILICON LNA, CELLULAR HANDHELDS

P / N	Description	Features	V _{CC} (V)	I _C (mA)	Package	NF (dB)	Max Gain (dB)
STB7001	LNA for GSM	3 Gain Levels	2.7	15	MSOP8	2.1	25
STB7002	LNA for DCS	3 Gain Levels	2.7	15	MSOP8	2.4	26
STB7003	LNA for GSM and PCS	Tri Band, 2 Gain Levels	2.7	6	MSOP10	2 @ 1.9GHz	18

SILICON PA DRIVERS, CELLULAR HANDHELDS

P / N	Description	Features	V _{CC} (V)	I _C (mA)	Package	P1dB (dBm)	Gain (dB)
STB7101	PPA for GSM and PCS	Broad Band	3	30	SOT323-6L	9.6 @ 0.9 GHz 6.3 @ 1.9 GHz	22.9 @ 0.9 GHz 23.1 @ 1.9 GHz

RF TRANSISTORS

0.4-5 GHZ SILICON LNA, GENERAL PURPOSE

P / N	Description	Features	V _{CE} (V)	I _C (mA)	Package	NF50 (dB) @1.8GHz	Max Stable Gain (dB)
START405	NPN Si RF Transistor	Low Noise Figure	2	5	SOT-343	1.15 @ 2mA	22 @ 1.8 GHz
START420	NPN Si RF Transistor	Low Noise Figure	2	20	SOT-343	1.05 @ 5mA	22 @ 1.8 GHz
START450	NPN Si RF Transistor	Medium Power Amplifier	2	50	SOT-343	1.25 @ 10mA	14 @ 1.8 GHz

0.4-5 GHZ SILICON POWER AMPLIFIERS, GENERAL PURPOSE

P / N	Description	Features	V _{CC} (V)	I _C (mA)	Package	P1dB (dBm)	Gain (dB)
START490	NPN Si RF Transistor	High Power Amplifier	3.6	5	SOT343	27 @ 60%PAE	11

SENSITIVE GATE SCRs (Tj max=125°C)

$I_{T(RMS)}$ (A)	V_{RRM}/V_{DRM} (V)	Part Number	I_{TSM} (A)	$I_{GT \text{ max}}$ (μ A)	$I_H \text{ max}$ (mA)	$V_{TM} @ I_{TM}$ (V) (A)		dV/dt min @ Tj max (V/ μ s)	Package
0.8	400	P0102DA 1AA3	7	200	5	1.95	1.6	75	TO-92
0.8	400	P0111DA 1AA3	7	25	5	1.95	1.6	80	TO-92
0.8	400	P0118DA 1AA3	7	5	5	1.95	1.6	75	TO-92
0.8	600	P0102MA 1AA3	7	200	5	1.95	1.6	75	TO-92
0.8	600	P0111MA 1AA3	7	25	5	1.95	1.6	80	TO-92
0.8	600	P0118MA 1AA3	7	5	5	1.95	1.6	75	TO-92
0.8	600	X00602MA 1AA2	9	200	5	1.35	1	25	TO-92
1.25	600	X0202MA 1BA2	22.5	200	5	1.45	2.5	10	TO-92
1.25	600	X0205MA 1BA2	22.5	50	5	1.45	2.5	15	TO-92
1.25	800	X0202NA 1BA2	22.5	200	5	1.45	2.5	10	TO-92
1.25	800	X0205NA 1BA2	22.5	50	5	1.45	2.5	15	TO-92
4	600	TS420-600T	30	200	5	1.6	8	5	TO-220AB
4	600	TS420-600H	30	200	5	1.6	8	5	IPAK
4	600	X0402MF 1AA2	30	200	5	1.8	8	10	TO202-3
4	600	X0405MF 1AA2	30	50	5	1.8	8	15	TO202-3
4	700	TS420-700T	30	200	5	1.6	8	5	TO-220AB
4	700	TS420-700H	30	200	5	1.6	8	5	IPAK
4	800	X0402NF 1AA2	30	200	5	1.8	8	10	TO202-3
4	800	X0405NF 1AA2	30	50	5	1.8	8	15	TO202-3
8	600	TS820-600H	70	200	5	1.6	16	5	IPAK
8	600	TS820-600T	70	200	5	1.6	16	5	TO-220AB
8	700	TS820-700H	70	200	5	1.6	16	5	IPAK
8	700	TS820-700T	70	200	5	1.6	16	5	TO-220AB
12	600	TS1220-600H	110	200	5	1.6	24	5	IPAK
12	700	TS1220-700H	110	200	5	1.6	24	5	IPAK

I_{GT} I_H and V_{TM} specified at $T_j = 25^\circ\text{C}$

STANDARD SCRs (Tj max=125°C)

$I_{T(RMS)}$ (A)	V_{RRM}/V_{DRM} (V)	Part Number	I_{TSM} (A)	$I_{GT \text{ max}}$ (mA)	$I_H \text{ max}$ (mA)	$V_{TM} @ I_{TM}$ (V) (A)		dV/dt min @ Tj max (V/ μ s)	Package
8	600	TN805-600H	70	5	20	1.6	16	50	IPAK
8	600	TN815-600H	70	15	40	1.6	16	150	IPAK
8	600	TYN608	95	15	30	1.6	16	150	TO-220AB
8	800	TN805-800H	70	5	20	1.6	16	50	IPAK
8	800	TN815-800H	70	15	40	1.6	16	150	IPAK
8	800	TYN808	95	15	30	1.6	16	150	TO-220AB
8	1000	TYN1008	95	15	30	1.6	16	150	TO-220AB
12	600	TN1215-600H	110	15	40	1.6	24	200	IPAK
12	600	TYN612	140	15	30	1.6	24	200	TO-220AB
12	600	TYN612T	140	5	15	1.6	24	40	TO-220AB
12	800	TN1215-800H	110	15	40	1.6	24	200	IPAK
12	800	TYN812	140	15	30	1.6	24	200	TO-220AB
12	800	TYN812T	140	5	15	1.6	24	40	TO-220AB
12	1000	TYN1012	140	15	30	1.6	24	200	TO-220AB
12	1000	TYN1012T	140	5	15	1.6	24	40	TO-220AB
16	600	TYN616	190	25	40	1.6	32	500	TO-220AB
16	800	TYN816	190	25	40	1.6	32	500	TO-220AB
16	1000	TYN1016	190	25	40	1.6	32	500	TO-220AB
25	600	TYN625	300	40	50	1.6	50	500	TO-220AB
25	800	TYN825	300	40	50	1.6	50	500	TO-220AB
25	1000	TYN1025	300	40	50	1.6	50	500	TO-220AB
40	600	TYN640	460	35	75	1.6	80	1000	TO-220AB
40	800	TYN840	460	35	75	1.6	80	1000	TO-220AB
40	1000	TYN1040	460	35	75	1.6	80	1000	TO-220AB
50	600	BTW67-600	580	80	150	1.9	100	500	RD91
50	600	BTW69-600	580	80	150	1.9	100	500	TOP3
50	800	BTW67-800	580	80	150	1.9	100	500	RD91
50	800	BTW69-800	580	80	150	1.9	100	500	TOP3
50	1200	BTW67-1200	580	80	150	1.9	100	500	RD91
50	1200	BTW69-1200	580	80	150	1.9	100	500	TOP3

I_{GT} I_H and V_{TM} specified at $T_j = 25^\circ\text{C}$

THYRISTORS

SURFACE MOUNT SCRs (T_j max=125°C)

I _T (RMS) (A)	V _{RRM} /V _{DRM} (V)	Part Number	I _{TSM} (A)	I _{GT} max (mA)	I _H max (mA)	V _{TM} @ I _{TM} (V) (A)		dV/dt min @ T _j max (V/μs)	Package
0.26	200	P0102BL 5AA4	6	0.2	5	1.7	0.4	200	SOT-23
0.8	400	P0102DN 5AA4	7	0.2	5	1.95	1.6	75	SOT-223
0.8	400	P0111DN 5AA4	7	0.025	5	1.95	1.6	80	SOT-223
0.8	400	P0118DN 5AA4	7	0.005	5	1.95	1.6	75	SOT-223
0.8	600	P0102MN 5AA4	7	0.2	5	1.95	1.6	75	SOT-223
0.8	600	P0111MN 5AA4	7	0.025	5	1.95	1.6	80	SOT-223
0.8	600	P0118MN 5AA4	7	0.005	5	1.95	1.6	75	SOT-223
1.25	600	X0205MN 5BA4	22.5	0.05	5	1.45	2.5	15	SOT-223
1.25	800	X0205NN 5BA4	22.5	0.05	5	1.45	2.5	15	SOT-223
1.25	600	X0202MN 5BA4	22.5	0.2	5	1.45	2.5	10	SOT-223
1.25	800	X0202NN 5BA4	22.5	0.2	5	1.45	2.5	10	SOT-223
4	600	TS420-600B	30	0.2	5	1.6	8	5	DPAK
4	700	TS420-700B	30	0.2	5	1.6	8	5	DPAK
8	600	TN805-600B	70	5	20	1.6	16	50	DPAK
8	600	TN815-600B	70	15	40	1.6	16	150	DPAK
8	600	TS820-600B	70	0.2	5	1.6	16	5	DPAK
8	700	TS820-700B	70	0.2	5	1.6	16	5	DPAK
8	800	TN805-800B	70	5	20	1.6	16	50	DPAK
8	800	TN815-800B	70	15	40	1.6	16	150	DPAK
12	600	TN1215-600B	110	15	40	1.6	24	200	DPAK
12	600	TN1215-600G	140	15	30	1.5	24	200	D ² PAK
12	600	TS1220-600B	110	0.2	5	1.6	24	5	DPAK
12	700	TS1220-700B	110	0.2	5	1.6	24	5	DPAK
12	800	TN1215-800B	110	15	40	1.6	24	200	DPAK
12	800	TN1215-800G	140	15	30	1.6	24	200	D ² PAK
12	1000	TN1215-1000G	140	15	30	1.6	24	200	D ² PAK
16	600	TN1625-600G	190	25	40	1.6	32	500	D ² PAK
16	800	TN1625-800G	190	25	40	1.6	32	500	D ² PAK
16	1000	TN1625-1000G	190	25	40	1.6	32	500	D ² PAK
25	600	TN2540-600G	300	40	50	1.5	50	500	D ² PAK
25	800	TN2540-800G	300	40	50	1.5	50	500	D ² PAK
25	1000	TN2540-1000G	300	40	50	1.5	50	500	D ² PAK

I_{GT} I_H and V_{TM} specified at T_j = 25°C

SCR MODULES

I _T (RMS) (A)	V _{RRM} /V _{DRM} (V)	Part Number	I _{TSM} (A)	I _{GT} max (mA)	I _H max (mA)	V _{TM} @ I _{TM} (V) (A)		dV/dt @ T _j max (V/μs)	di/dt max (A/μs)	Package
50	800	MDS35-800	400	50	80	1.7	80	500	100	ISOTOP
50	1200	MDS35-1200	400	50	80	1.7	80	500	100	ISOTOP
55	800	MSS40-800	400	50	80	1.7	80	500	100	ISOTOP
55	1200	MSS40-1200	400	50	80	1.7	80	500	100	ISOTOP
70	800	MDS50-800	600	50	80	1.75	110	500	100	ISOTOP
70	800	MSS50-800	600	50	80	1.7	100	500	100	ISOTOP
70	1200	MDS50-1200	600	50	80	1.75	110	500	100	ISOTOP
70	1200	MSS50-1200	600	50	80	1.7	100	500	100	ISOTOP
85	800	MDS80-800	700	150	80	1.75	170	500	100	ISOTOP
85	1200	MDS80-1200	700	150	80	1.75	170	500	100	ISOTOP

I_{GT} I_H and V_{TM} specified at T_j = 25°C

MSS: two SCRs in back to back configuration

MDS: one SCR and one diode configuration

STANDARD TRIACs (Tj max=125 °C)

$I_{T(RMS)}$ (A)	V_{RRM}/V_{DRM} (V)	Part Number	I_{TSM} @ 20ms (A)	I_{GT} Q1 max (mA)	V_{TM} @ (V)	I_{TM} (A)	(dV/dt)c min (V/μs)	dV/dt min (V/μs)	Package
0.8	600	Z00607MA 1BA2	9	5	1.5	1.1	1.5	10	TO-92
1	600	Z0103MA 1AA2	8	3	1.6	1.4	0.5	10	TO-92
1	600	Z0107MA 1AA2	8	5	1.6	1.4	1	20	TO-92
1	600	Z0109MA 1AA2	8	10	1.6	1.4	2	50	TO-92
1	600	Z0110MA 1AA2	8	25	1.6	1.4	5	100	TO-92
1	700	Z0103SA 1AA2	8	3	1.6	1.4	0.5	10	TO-92
1	700	Z0107SA 1AA2	8	5	1.6	1.4	1	20	TO-92
1	700	Z0109SA 1AA2	8	10	1.6	1.4	2	50	TO-92
1	700	Z0110SA 1AA2	8	25	1.6	1.4	5	100	TO-92
1	800	Z0103NA 1AA2	8	3	1.6	1.4	0.5	10	TO-92
1	800	Z0107NA 1AA2	8	5	1.6	1.4	1	20	TO-92
1	800	Z0109NA 1AA2	8	10	1.6	1.4	2	50	TO-92
1	800	Z0110NA 1AA2	8	25	1.6	1.4	5	100	TO-92
4	600	Z0402MF 1AA2	20	3	2	5.5	0.5	100	TO202-3
4	600	Z0405MF 1AA2	20	5	2	5.5	1	20	TO202-3
4	600	Z0409MF 1AA2	20	10	2	5.5	2	100	TO202-3
4	600	Z0410MF 1AA2	20	25	2	5.5	5	200	TO202-3
4	700	Z0402SF 1AA2	20	3	2	5.5	0.5	100	TO202-3
4	700	Z0405SF 1AA2	20	5	2	5.5	1	20	TO202-3
4	700	Z0409SF 1AA2	20	10	2	5.5	2	100	TO202-3
4	700	Z0410SF 1AA2	20	25	2	5.5	5	200	TO202-3
4	800	Z0402NF 1AA2	20	3	2	5.5	0.5	100	TO202-3
4	800	Z0405NF 1AA2	20	5	2	5.5	1	20	TO202-3
4	800	Z0409NF 1AA2	20	10	2	5.5	2	100	TO202-3
4	800	Z0410NF 1AA2	20	25	2	5.5	5	200	TO202-3
6	600	BTA06-600B	60	50	1.55	8.5	10	400	TO-220AB Ins.
6	600	BTA06-600C	60	25	1.55	8.5	5	200	TO-220AB Ins.
6	600	BTB06-600B	60	50	1.55	8.5	10	400	TO-220AB
6	600	BTB06-600C	60	25	1.55	8.5	5	200	TO-220AB
6	800	BTA06-600B	60	50	1.55	8.5	10	400	TO-220AB Ins.
6	800	BTA06-800C	60	25	1.55	8.5	5	200	TO-220AB Ins.
6	800	BTB06-600B	60	50	1.55	8.5	10	400	TO-220AB
6	800	BTB06-800C	60	25	1.55	8.5	5	200	TO-220AB
8	600	BTA08-600B	80	50	1.55	11	10	400	TO-220AB Ins.
8	600	BTA08-600C	80	25	1.55	11	5	200	TO-220AB Ins.
8	600	BTB08-600B	80	50	1.55	11	10	400	TO-220AB
8	600	BTB08-600C	80	25	1.55	11	5	200	TO-220AB
8	800	BTA08-800B	80	50	1.55	11	10	400	TO-220AB Ins.
8	800	BTA08-800C	80	25	1.55	11	5	200	TO-220AB Ins.
8	800	BTB08-800B	80	50	1.55	11	10	400	TO-220AB
8	800	BTB08-800C	80	25	1.55	11	5	200	TO-220AB
10	600	BTA10-600B	100	50	1.55	14	10	400	TO-220AB Ins.
10	600	BTA10-600C	100	25	1.55	14	5	200	TO-220AB Ins.
10	600	BTB10-600B	100	50	1.55	14	10	400	TO-220AB
10	600	BTB10-600C	100	25	1.55	14	5	200	TO-220AB
10	800	BTA10-800B	100	50	1.55	14	10	400	TO-220AB Ins.
10	800	BTA10-800C	100	25	1.55	14	5	200	TO-220AB Ins.
10	800	BTB10-800B	100	50	1.55	14	10	400	TO-220AB
10	800	BTB10-800C	100	25	1.55	14	5	200	TO-220AB
12	600	BTA12-600B	120	50	1.55	17	10	400	TO-220AB Ins.
12	600	BTA12-600C	120	25	1.55	17	5	200	TO-220AB Ins.
12	600	BTB12-600B	120	50	1.55	17	10	400	TO-220AB
12	600	BTB12-600C	120	25	1.55	17	5	200	TO-220AB
12	800	BTA12-800B	120	50	1.55	17	10	400	TO-220AB Ins.
12	800	BTA12-800C	120	25	1.55	17	5	200	TO-220AB Ins.
12	800	BTB12-800B	120	50	1.55	17	10	400	TO-220AB
12	800	BTB12-800C	120	25	1.55	17	5	200	TO-220AB
16	600	BTA16-600B	160	50	1.55	22.5	10	400	TO-220AB Ins.
16	600	BTA16-600C	160	25	1.55	22.5	5	200	TO-220AB Ins.
16	600	BTB16-600B	160	50	1.55	22.5	10	400	TO-220AB
16	600	BTB16-600C	160	25	1.55	22.5	5	200	TO-220AB

THYRISTORS

Contd.

$I_{T(RMS)}$ (A)	V_{RRM}/V_{DRM} (V)	Part Number	I_{TSM} @ 20ms (A)	I_{GT} Q1 max (mA)	V_{TM} @ I_{TM} (V)	I_{TM} (A)	(dV/dt)c min (V/μs)	dV/dt min (V/μs)	Package
16	800	BTA16-800B	160	50	1.55	22.5	10	400	TO-220AB Ins.
16	800	BTA16-800C	160	25	1.55	22.5	5	200	TO-220AB Ins.
16	800	BTB16-800B	160	50	1.55	22.5	10	400	TO-220AB
16	800	BTB16-800C	160	25	1.55	22.5	5	200	TO-220AB
25	600	BTA25-600B	250	50	1.55	35	10	500	RD91
25	600	BTA26-600B	250	50	1.55	35	10	500	TOP3
25	800	BTA25-800B	250	50	1.55	35	10	500	RD91
25	800	BTA26-800B	250	50	1.55	35	10	500	TOP3
40	600	BTA40-600B	400	50	1.55	60	10	500	RD91
40	600	BTA41-600B	400	50	1.55	60	10	500	TOP3
40	600	BTB41-600B	400	50	1.55	60	10	500	TOP3
40	800	BTA40-800B	400	50	1.55	60	10	500	RD91
40	800	BTA41-800B	400	50	1.55	60	10	500	TOP3
40	800	BTB41-800B	400	50	1.55	60	10	500	TOP3

SNUBBERLESS & LOGIC LEVEL TRIACS

$I_{T(RMS)}$ (A)	V_{RRM}/V_{DRM} (V)	Part Number	Type (1)	I_{TSM} @ 20ms (A)	I_{GT} max (mA)	V_{TM} @ I_{TM} (V)	I_{TM} (A)	(dI/dt)c min (A/ms)	dV/dt min (V/μs)	Package
4	600	T405-600H	L	30	5	1.6	5.5	0.9	20	IPAK
4	600	T405-600T	L	30	5	1.6	5.5	0.9	20	TO-220AB
4	600	T405-600W	L	30	5	1.6	5.5	0.9	20	ISOWATT220AB
4	600	T410-600H	L	30	10	1.6	5.5	2.0	40	IPAK
4	600	T410-600T	L	30	10	1.6	5.5	2.0	40	TO-220AB
4	600	T410-600W	L	30	10	1.6	5.5	2.0	40	ISOWATT220AB
4	600	T435-600H	S	30	35	1.6	5.5	2.5	400	IPAK
4	600	T435-600T	S	30	35	1.6	5.5	2.5	400	TO-220AB
4	600	T435-600W	S	30	35	1.6	5.5	2.5	400	ISOWATT220AB
4	700	T405-700H	L	30	5	1.6	5.5	0.9	20	IPAK
4	700	T405-700T	L	30	5	1.6	5.5	0.9	20	TO-220AB
4	700	T405-700W	L	30	5	1.6	5.5	0.9	20	ISOWATT220AB
4	700	T410-700H	L	30	10	1.6	5.5	2.0	40	IPAK
4	700	T410-700T	L	30	10	1.6	5.5	2.0	40	TO-220AB
4	700	T410-700W	L	30	10	1.6	5.5	2.0	40	ISOWATT220AB
4	700	T435-700H	S	30	35	1.6	5.5	2.5	400	IPAK
4	700	T435-700T	S	30	35	1.6	5.5	2.5	400	TO-220AB
4	700	T435-700W	S	30	35	1.6	5.5	2.5	400	ISOWATT220AB
4	800	T405-800H	L	30	5	1.6	5.5	0.9	20	IPAK
4	800	T405-800T	L	30	5	1.6	5.5	0.9	20	TO-220AB
4	800	T405-800W	L	30	5	1.6	5.5	0.9	20	ISOWATT220AB
4	800	T410-800H	L	30	10	1.6	5.5	2.0	40	IPAK
4	800	T410-800T	L	30	10	1.6	5.5	2.0	40	TO-220AB
4	800	T410-800W	L	30	10	1.6	5.5	2.0	40	ISOWATT220AB
4	800	T435-800H	S	30	35	1.6	5.5	2.5	400	IPAK
4	800	T435-800T	S	30	35	1.6	5.5	2.5	400	TO-220AB
4	800	T435-800W	S	30	35	1.6	5.5	2.5	400	ISOWATT220AB
6	600	BTA06-600BW	S	60	50	1.55	8.5	5.3	1000	TO-220AB Ins.
6	600	BTA06-600CW	S	60	35	1.55	8.5	3.5	400	TO-220AB Ins.
6	600	BTA06-600SW	L	60	10	1.55	8.5	2.4	40	TO-220AB Ins.
6	600	BTA06-600TW	L	60	5	1.55	8.5	1.2	20	TO-220AB Ins.
6	600	BTB06-600BW	S	60	50	1.55	8.5	5.3	1000	TO-220AB
6	600	BTB06-600CW	S	60	35	1.55	8.5	3.5	400	TO-220AB
6	600	BTB06-600SW	L	60	10	1.55	8.5	2.4	40	TO-220AB
6	600	BTB06-600TW	L	60	5	1.55	8.5	1.2	20	TO-220AB
6	800	BTA06-800BW	S	60	50	1.55	8.5	5.3	1000	TO-220AB Ins.
6	800	BTA06-800CW	S	60	35	1.55	8.5	3.5	400	TO-220AB Ins.
6	800	BTA06-800SW	L	60	10	1.55	8.5	2.4	40	TO-220AB Ins.

I_T (RMS) (A)	V_{RRM}/V_{DRM} (V)	Part Number	Type (1)	I_{TSM} @ 20ms (A)	I_{GT} max (mA)	V_{TM} @ I_{TM} (V)	I_{TM} (A)	$(di/dt)_c$ min (A/ms)	dV/dt min (V/ μ s)	Package
6	800	BTA06-800TW	L	60	5	1.55	8.5	1.2	20	TO-220AB Ins.
6	800	BTB06-800BW	S	60	50	1.55	8.5	5.3	1000	TO-220AB
6	800	BTB06-800CW	S	60	35	1.55	8.5	3.5	400	TO-220AB
6	800	BTB06-800SW	L	60	10	1.55	8.5	2.4	40	TO-220AB
6	800	BTB06-800TW	L	60	5	1.55	8.5	1.2	20	TO-220AB
8	600	BTA08-600BW	S	80	50	1.55	11	7	1000	TO-220AB Ins.
8	600	BTA08-600CW	S	80	35	1.55	11	4.5	400	TO-220AB Ins.
8	600	BTA08-600SW	L	80	10	1.55	11	2.8	40	TO-220AB Ins.
8	600	BTA08-600TW	L	80	5	1.55	11	1.5	20	TO-220AB Ins.
8	600	BTB08-600BW	S	80	50	1.55	11	7	1000	TO-220AB
8	600	BTB08-600CW	S	80	35	1.55	11	4.5	400	TO-220AB
8	600	BTB08-600SW	L	80	10	1.55	11	5.4	40	TO-220AB
8	600	BTB08-600TW	L	80	5	1.55	11	3.5	20	TO-220AB
8	600	T810-600H	L	80	10	1.55	11	5.4	40	IPAK
8	600	T835-600H	S	80	35	1.55	11	4.5	400	IPAK
8	800	BTA08-800BW	S	80	50	1.55	11	7	1000	TO-220AB Ins.
8	800	BTA08-800CW	S	80	35	1.55	11	4.5	400	TO-220AB Ins.
8	800	BTA08-800SW	L	80	10	1.55	11	2.8	40	TO-220AB Ins.
8	800	BTA08-800TW	L	80	5	1.55	11	1.5	20	TO-220AB Ins.
8	800	BTB08-800BW	S	80	50	1.55	11	7	1000	TO-220AB
8	800	BTB08-800CW	S	80	35	1.55	11	4.5	400	TO-220AB
8	800	BTB08-800SW	L	80	10	1.55	11	2.8	40	TO-220AB
8	800	BTB08-800TW	L	80	5	1.55	11	1.5	20	TO-220AB
8	800	T810-800H	L	80	10	1.55	11	5.4	40	IPAK
8	800	T835-800H	S	80	35	1.55	11	4.5	400	IPAK
10	600	BTA10-600BW	S	100	50	1.55	14	9	1000	TO-220AB Ins.
10	600	BTA10-600CW	S	100	35	1.55	14	5.5	500	TO-220AB Ins.
10	600	BTB10-600BW	S	100	50	1.55	14	9	1000	TO-220AB
10	600	BTB10-600CW	S	100	35	1.55	14	5.5	500	TO-220AB
10	800	BTA10-800BW	S	100	50	1.55	14	9	1000	TO-220AB Ins.
10	800	BTA10-800CW	S	100	35	1.55	14	5.5	500	TO-220AB Ins.
10	800	BTB10-800BW	S	100	50	1.55	14	9	1000	TO-220AB
10	800	BTB10-800CW	S	100	35	1.55	14	5.5	500	TO-220AB
12	600	BTA12-600BW	S	120	50	1.55	17	12	1000	TO-220AB Ins.
12	600	BTA12-600CW	S	120	35	1.55	17	6.5	500	TO-220AB Ins.
12	600	BTA12-600SW	L	120	10	1.55	17	2.9	40	TO-220AB Ins.
12	600	BTB12-600BW	S	120	50	1.55	17	12	1000	TO-220AB
12	600	BTB12-600CW	S	120	35	1.55	17	6.5	500	TO-220AB
12	600	BTB12-600SW	S	120	10	1.55	17	2.9	40	TO-220AB
12	800	BTA12-800BW	S	120	50	1.55	17	12	1000	TO-220AB Ins.
12	800	BTA12-800CW	S	120	35	1.55	17	6.5	500	TO-220AB Ins.
12	800	BTA12-800SW	L	120	10	1.55	17	2.9	40	TO-220AB Ins.
12	800	BTB12-800BW	S	120	50	1.55	17	12	1000	TO-220AB
12	800	BTB12-800CW	S	120	35	1.55	17	6.5	500	TO-220AB
12	800	BTB12-800SW	L	120	10	1.55	17	2.9	40	TO-220AB
16	600	BTA16-600BW	S	160	50	1.55	22.5	14	1000	TO-220AB Ins.
16	600	BTA16-600CW	S	160	35	1.55	22.5	8.5	500	TO-220AB Ins.
16	600	BTA16-600SW	L	160	10	1.55	22.5	2.9	40	TO-220AB Ins.
16	600	BTB16-600BW	S	160	50	1.55	22.5	14	1000	TO-220AB
16	600	BTB16-600CW	S	160	35	1.55	22.5	8.5	500	TO-220AB
16	600	BTB16-600SW	L	160	10	1.55	22.5	2.9	40	TO-220AB
16	800	BTA16-800BW	S	160	50	1.55	22.5	14	1000	TO-220AB Ins.
16	800	BTA16-800CW	S	160	35	1.55	22.5	8.5	500	TO-220AB Ins.
16	800	BTA16-800SW	L	160	10	1.55	22.5	3.0	40	TO-220AB Ins.
16	800	BTB16-800BW	S	160	50	1.55	22.5	14	1000	TO-220AB
16	800	BTB16-800CW	S	160	35	1.55	22.5	8.5	500	TO-220AB
16	800	BTB16-800SW	L	160	10	1.55	22.5	3.0	40	TO-220AB
25	600	BTA24-600BW	S	250	50	1.55	35	22	1000	TO-220AB Ins.
25	600	BTA24-600CW	S	250	35	1.55	35	13	500	TO-220AB Ins.

THYRISTORS

Contd.

I_T (RMS) (A)	V_{RRM}/V_{DRM} (V)	Part Number	Type (1)	I_{TSM} @ 20ms (A)	I_{GT} max (mA)	V_{TM} @ I_{TM} (V)	I_{TM} (A)	$(di/dt)_c$ min (A/ms)	dV/dt min (V/μs)	Package
25	600	BTA25-600BW	S	250	50	1.55	35	22	1000	RD91
25	600	BTA25-600CW	S	250	35	1.55	35	13	500	RD91
25	600	BTA26-600BW	S	250	50	1.55	35	22	1000	TOP3
25	600	BTA26-600CW	S	250	35	1.55	35	13	500	TOP3
25	600	BTB24-600BW	S	250	50	1.55	35	22	1000	TO-220AB
25	600	BTB24-600CW	S	250	35	1.55	35	13	500	TO-220AB
25	800	BTA24-800BW	S	250	50	1.55	35	22	1000	TO-220AB Ins.
25	800	BTA24-800CW	S	250	35	1.55	35	13	500	TO-220AB Ins.
25	800	BTA25-800BW	S	250	50	1.55	35	22	1000	RD91
25	800	BTA25-800CW	S	250	35	1.55	35	13	500	RD91
25	800	BTA26-800BW	S	250	50	1.55	35	22	1000	TOP3
25	800	BTA26-800CW	S	250	35	1.55	35	13	500	TOP3
25	800	BTB24-800BW	S	250	50	1.55	35	22	1000	TO-220AB
25	800	BTB24-800CW	S	250	35	1.55	35	13	500	TO-220AB

(1) "L": Logic level - "S": Snubberless

SURFACE MOUNT STANDARD TRIACs (T_j max. = 125°C)

I_T (RMS) (A)	V_{RRM}/V_{DRM} (V)	Part Number	I_{TSM} @ 20ms (A)	I_{GT} Q1 max (mA)	V_{TM} @ I_{TM} (V)	I_{TM} (A)	$(dV/dt)_c$ min (V/μs)	dV/dt min (V/μs)	Package
1	600	Z0103DN 5AA4	8	3	1.6	1.4	0.5	10	SOT-223
1	600	Z0107MN 5AA4	8	5	1.6	1.4	1	20	SOT-223
1	600	Z0109MN 5AA4	8	10	1.6	1.4	2	50	SOT-223
1	600	Z0110MN 5AA4	8	25	1.6	1.4	5	100	SOT-223
1	700	Z0103SN 5AA4	8	3	1.6	1.4	0.5	10	SOT-223
1	700	Z0107SN 5AA4	8	5	1.6	1.4	1	20	SOT-223
1	700	Z0109SN 5AA4	8	10	1.6	1.4	2	50	SOT-223
1	700	Z0110SN 5AA4	8	25	1.6	1.4	5	100	SOT-223
1	800	Z0103MN 5AA4	8	3	1.6	1.4	0.5	10	SOT-223
1	800	Z0107NN 5AA4	8	5	1.6	1.4	1	20	SOT-223
1	800	Z0109NN 5AA4	8	10	1.6	1.4	2	50	SOT-223
1	800	Z0110NN 5AA4	8	25	1.6	1.4	5	100	SOT-223

SURFACE MOUNT SNUBBERLESS TRIACs (T_j max. = 125°C)

I_T (RMS) (A)	V_{RRM}/V_{DRM} (V)	Part Number	I_{TSM} @ 20ms (A)	I_{GT} max (mA)	V_{TM} @ I_{TM} (V)	I_{TM} (A)	$(di/dt)_c$ min (A/ms)	dV/dt min (V/μs)	Package
4	600	T405-600B	30	5	1.6	5.5	0.9	20	DPAK
4	600	T410-600B	30	10	1.6	5.5	2.0	40	DPAK
4	600	T435-600B	30	35	1.6	5.5	2.5	400	DPAK
4	700	T405-700B	30	5	1.6	5.5	0.9	20	DPAK
4	700	T410-700B	30	10	1.6	5.5	2.0	40	DPAK
4	700	T435-700B	30	35	1.6	5.5	2.5	400	DPAK
4	800	T405-800B	30	5	1.6	5.5	0.9	20	DPAK
4	800	T410-800B	30	10	1.6	5.5	2.0	40	DPAK
4	800	T435-800B	30	35	1.6	5.5	2.5	400	DPAK
8	600	T810-600B	80	10	1.55	11	2.8	40	DPAK
8	600	T835-600B	80	35	1.55	11	4.5	400	DPAK
8	600	T835-600G	80	35	1.55	11	4.5	400	D ² PAK
8	800	T810-800B	80	10	1.55	11	2.8	40	DPAK
8	800	T835-800B	80	35	1.55	11	4.5	400	DPAK
8	800	T835-800G	80	35	1.55	11	4.5	400	D ² PAK
12	600	T1235-600G	120	35	1.55	17	6.5	500	D ² PAK
12	800	T1235-800G	120	35	1.55	17	6.5	500	D ² PAK
16	600	T1635-600G	160	35	1.55	22.5	8.5	500	D ² PAK
16	800	T1635-800G	160	35	1.55	22.5	8.5	500	D ² PAK
25	600	T2535-600G	250	35	1.55	35	13	500	D ² PAK
25	800	T2535-800G	250	35	1.55	35	13	500	D ² PAK

HIGH TEMPERATURE TRIACs (Tj max=125 °C)

IT(RMS) (A)	VRRM/VRDM (V)	Part Number	TC	ITSM @ 20ms (A)	IGT max (mA)	VTM @ ITM (V)	ITM (A)	(dV/dt)c min (V/μs)	Rth(j-c) max (°C/W)	Package
12	600	T1235H-600G	135	140	35	1.5	17	5.3	1.2	D ² PAK
12	600	T1235H-600T	135	140	35	1.5	17	5.3	1.2	TO-220AB
25	600	T2550H-600T	125	250	50	1.5	35	11.1	1	TO-220AB

DIACS

Part Number	VBO min (V)	VBO nom (V)	VBO max (V)	VBO symmetry ΔVmax (V)	I _{BO} max (μA)	ΔV between 0 and 10mA min (V)	Package
DB3	28	32	36	+ -3	50	5	DO-35
DB4	35	40	45	+ -3	50	5	DO-35

IGNITORS FOR INDUSTRIAL APPLICATIONS

FIRE LIGHTER CIRCUIT: Control Circuit For Gas Hobs, Fuel Ignition, Electrical Fence

Part Number	Voltage Source (V)	VBO min (V)	VBO max (V)	Peak Current @ 10μs (A)	Package
FLC21-65A	100V AC	70	80	90	TO-92
FLC01-200H	220V AC	206	233	190	PAK
FLC10-200H	220V AC	206	233	240	IPAK
FLC21-135A	DC Battery	140	160	90	TO-92

IGNITORS FOR LIGHTING APPLICATIONS

EFS: FLUORESCENT TUBE STARTER

AC Input Frequency (Hz)	ASD	Driver	Lamp Power (W)	Temperature range (°C)	VBO min	Package
50 50/60	EFS21-TL5 EFS21-TL5	EFS2A-CD EFS2B-CD	18 to 58 70	-30 to +85 0 to +85	1150V @ 5mA 1150V @ 5mA	PENTAWATT HV PENTAWATT HV

IGNITORS FOR LIGHTING APPLICATIONS

LIC: HIGH INTENSITY DISCHARGE LAMP STARTER

Part Number	VBO min (V)	VBO max (V)	Peak pulse current @ 10μs (A)	I _H min (mA)	dI/dt max (A/μs)	Package
LIC01-195B	195	230	50	50	80	DPAK
LIC01-195H	195	230	50	50	80	IPAK
LIC01-215B	215	255	50	50	80	DPAK
LIC01-215H	215	255	50	50	80	IPAK

AC Switch

ACS DEVICES FOR HOME APPLIANCES

Part Number	IT(RMS) (A)	VDRM/VRRM (V)	VCL @ 1mA Typ (V)	IGT (mA)	VTM @ ITM (V)	ITM (A)	dV/dt (V/μs)	(dI/dt)c (A/ms)	Package
ACS102-5T1	0.2	500	600	5	1.1	0.3	300	0.1	SO-8
ACS102-5TA	0.2	500	600	5	1.1	0.3	300	0.1	TO-92
ACS108-5SA	0.8	500	600	10	1.3	1.1	500	0.1	TO-92
ACS108-5SN	0.8	500	600	10	1.3	1.1	500	0.1	SOT-223
ACS402-5SB4	4 x 0.2	500	600	10	1.1	0.3	500	0.1	DIP-20
ACST6-7SFP	6	700	1100	10	1.4	2.1	200	3	TO-220FPAB
ACST6-7SG	6	700	1100	10	1.4	2.1	200	3	D ² PAK
ACST6-7ST	6	700	1100	10	1.4	2.1	200	3	TO-220AB

POWER RECTIFIERS

10V, 20V, 30V AND 40V, SIGNAL SCHOTTKY DIODES

Voltage max (V)	Current (mA)	Part Number	V_F max (V)	@ I_F (mA)	C typ @ F=1MHz (pF)	trr (ns)	Package
10	3000	BAT60JFILM	0.32	1	35	-	SOD-323
20	350	BAT47	0.3	1	12	10	DO-35
30	100	BAR42FILM	0.4	10	7	5	SOT-23
30	100	BAR43AFILM	0.33	2	7	5	SOT-23
30	100	BAR43CFILM	0.33	2	7	5	SOT-23
30	100	BAR43FILM	0.33	2	7	5	SOT-23
30	100	BAR43SFILM	0.33	2	7	5	SOT-23
30	200	BAT42	0.4	10	7	5	DO-35
30	200	BAT43	0.33	2	7	5	DO-35
30	200	TMMBAT42FILM	0.4	10	7	5	MINIMELF
30	200	TMMBAT43FILM	0.33	2	7	5	MINIMELF
30	300	BAT54AFILM	0.9	100	10	5	SOT-23
30	300	BAT54AWFILM	0.9	100	10	5	SOT-323
30	300	BAT54CFILM	0.9	100	10	5	SOT-23
30	300	BAT54CWFILM	0.9	100	10	5	SOT-323
30	300	BAT54FILM	0.9	100	10	5	SOT-23
30	300	BAT54JFILM	0.9	100	10	5	SOD-323
30	300	BAT54SFILM	0.9	100	10	5	SOT-23
30	300	BAT54SWFILM	0.9	100	10	5	SOT-323
30	300	BAT54WFILM	0.9	100	10	5	SOT-323
30	500	BAT74FILM	0.32	1	10	5	SOT-143
40	350	BAT48	0.3	1	12	10	DO-35
40	350	TMMBAT48FILM	0.5	50	12	10	MINIMELF
40	1000	BYV10-40	0.55	1000	220	-	DO-41
40	1000	TMBYV10-40FILM	0.55	1000	220	-	MELF

60, 70V, 80V AND 100V, SIGNAL SCHOTTKY DIODES

Voltage max (V)	Current (mA)	Part Number	V_F max (V)	@ I_F (mA)	C typ @ F=1MHz (pF)	Dynamic parameters	Package
60	15	1N6263	0.41	1	2.2	$\tau < 100$ ps / 5mA	DO-35
60	15	TMM6263FILM	0.41	1	2.2	$\tau < 100$ ps / 5mA	MINIMELF
60	1000	BYV10-60	0.7	1000	40	-	DO-41
60	1000	TMBYV10-60FILM	0.7	1000	40	-	MELF
70	15	1N5711	0.41	1	2	$\tau < 100$ ps / 5mA	DO-35
70	15	BAR18FILM	0.41	1	2	$\tau < 100$ ps / 5mA	SOT-23
70	15	BAR28	0.41	1	2.2	$\tau < 100$ ps / 5mA	DO-35
70	15	BAS70-04FILM	0.41	1	2	$\tau < 100$ ps / 5mA	SOT-23
70	15	BAS70-04WFILM	0.41	1	2	$\tau < 100$ ps / 5mA	SOT-323
70	15	BAS70-05FILM	0.41	1	2	$\tau < 100$ ps / 5mA	SOT-23
70	15	BAS70-05WFILM	0.41	1	2	$\tau < 100$ ps / 5mA	SOT-323
70	15	BAS70-06FILM	0.41	1	2	$\tau < 100$ ps / 5mA	SOT-23
70	15	BAS70-06WFILM	0.41	1	2	$\tau < 100$ ps / 5mA	SOT-323
70	15	BAS70-07FILM	0.41	1	2	$\tau < 100$ ps / 5mA	SOT-143
70	15	BAS70JFILM	0.41	1	2	$\tau < 100$ ps / 5mA	SOD-323
70	15	BAS70WFILM	0.41	1	2	$\tau < 100$ ps / 5mA	SOT-323
80	500	BAT49	0.32	10	35	-	DO-41
80	500	TMBAT49FILM	0.32	10	35	-	MELF
100	100	BAT41	0.45	1	2	-	DO-35
100	100	TMMBAT41FILM	0.45	1	2	-	MINIMELF
100	150	BAR46AFILM	0.25	0.1	6	-	SOT-23
100	150	BAT46	0.25	0.1	6	-	DO-35
100	150	BAT46AWFILM	0.25	0.1	6	-	SOT-323
100	150	BAT46JFILM	0.25	0.1	6	-	SOD-323
100	150	BAT46WFILM	0.25	0.1	6	-	SOT-323
100	150	TMMBAT46FILM	0.25	0.1	6	-	MINIMELF

15V, 20V, 25V, 30 AND 40V, POWER SCHOTTKY DIODES

Voltage max (V)	Current (A)	Part Number	V _F (max) (V)	@ I _F (A)	I _{FSM} (°C)	T _j max	Package
15	20	STPS20L15D	0.33	19	310	125	TO-220AC
15	20	STPS20L15G	0.33	19	310	125	D ² PAK
15	2 x 20	STPS40L15CT	0.33	19	310	125	TO-220AB
15	2 x 20	STPS40L15CW	0.33	19	310	125	TO-247
15	2 x 40	STPS80L15CY	0.33	40	600	125	Max247
15	2 x 40	STPS80L15TV	0.33	40	700	125	ISOTOP
15	2 x 60	STPS120L15TV	0.31	60	1200	125	ISOTOP
20	1	1N5817	0.45	1	25	150	DO-41
20	3	1N5820	0.475	3	80	150	DO-201AD
25	2	STPS2L25U	0.375	2	75	150	SMB
25	3	STPS3L25S	0.44	3	75	150	SMC
25	10	STPS10L25D	0.35	10	200	150	TO-220AC
25	10	STPS10L25G	0.35	10	200	150	D ² PAK
25	15	STPS15L25D	0.35	15	250	150	TO-220AC
25	15	STPS15L25G	0.35	15	250	150	D ² PAK
25	2 x 10	STPS20L25CG	0.35	10	220	150	D ² PAK
25	2 x 10	STPS20L25CT	0.35	10	220	150	TO-220AB
30	1	1N5818	0.55	1	25	150	DO-41
30	1	STPS1L30A	0.3	1	75	150	SMA
30	1	STPS1L30U	0.3	1	75	150	SMB
30	2	STPS2L30A	0.375	2	75	150	SMA
30	3	1N5821	0.5	3	80	150	DO-201AD
30	8	STPS8L30B	0.4	8	75	150	DPAK
30	2 x 15	STPS30L30CG	0.37	15	220	150	D ² PAK
30	2 x 15	STPS30L30CT	0.37	15	220	150	TO-220AB
30	2 x 30	STPS60L30CW	0.38	30	600	150	TO-247
30	2 x 40	STPS80L30CY	0.38	40	400	150	Max247
40	0.5	STPS0540Z	0.4	0.5	5.5	150	SOD-123
40	1	1N5819	0.6	1	25	150	DO-41
40	1	STPS140Z	0.51	1	5.5	150	SOD-123
40	1	STPS1L40A	0.42	1	60	150	SMA
40	1	STPS1L40U	0.42	1	60	150	SMB
40	2	STPS2L40U	0.34	2	75	150	SMB
40	3	1N5822	0.525	3	80	150	DO-201AD
40	3	STPS340B	0.57	3	75	150	DPAK
40	3	STPS340S	0.57	3	75	150	SMC
40	3	STPS340U	0.57	3	75	150	SMB
40	3	STPS3L40S	0.44	3	75	150	SMC
40	2 x 3	STPS640CB	0.57	3	75	150	DPAK
40	2 x 5	STPS10L40CF	0.46	5	150	150	ISOWATT220AB
40	2 x 5	STPS10L40CFP	0.46	5	150	150	TO-220FPAB
40	2 x 5	STPS10L40CG	0.46	5	150	150	D2PAK
40	2 x 5	STPS10L40CT	0.46	5	150	150	TO-220AB
40	2 x 8	STPS16L40CT	0.45	8	180	150	TO-220AB
40	2 x 10	STPS20L40CF	0.5	10	180	150	ISOWATT220AB
40	2 x 10	STPS20L40CFP	0.5	10	180	150	TO-220FPAB
40	2 x 10	STPS20L40CW	0.5	10	180	150	TO-247
40	2 x 15	STPS30L40CT	0.5	15	220	150	TO-220AB
40	2 x 15	STPS30L40CW	0.5	15	220	150	TO-247
40	2 x 20	STPS40L40CG	0.49	20	230	150	D ² PAK
40	2 x 20	STPS40L40CT	0.49	20	230	150	TO-220AB
40	2 x 20	STPS40L40CW	0.49	20	230	150	TO-247
40	2 x 30	STPS60L40CW	0.5	30	600	150	TO-247

POWER RECTIFIERS

45V, 60V AND 100V, POWER SCHOTTKY DIODES

Voltage max (V)	Current (A)	Part Number	V _F (max) (V)	@ I _F (A)	I _{FSM} (A)	T _j max (°C)	Package
45	7.5	STPS745D	0.57	7.5	150	175	TO-220AC
45	7.5	STPS745F	0.57	7.5	150	175	ISOWATT220AC
45	7.5	STPS745FP	0.57	7.5	150	175	TO-220FPAC
45	7.5	STPS745G	0.57	7.5	150	175	D ² PAK
45	10	STPS1045B	0.57	7.5	75	175	DPAK
45	10	STPS1045D	0.57	7.5	180	175	TO-220AC
45	10	STPS1045F	0.57	7.5	180	175	ISOWATT220AC
45	10	STPS1045FP	0.57	7.5	180	175	TO-220FPAC
45	2 x 7.5	STPS1545CF	0.57	7.5	150	175	ISOWATT220AB
45	2 x 7.5	STPS1545CG	0.57	7.5	150	175	D ² PAK
45	2 x 7.5	STPS1545CT	0.57	7.5	150	175	TO-220AB
45	15	STPS1545D	0.57	7.5	220	175	TO-220AC
45	15	STPS1545F	0.57	7.5	220	175	ISOWATT220AC
45	15	STPS1545FP	0.57	7.5	220	175	TO-220FPAC
45	2 x 10	STPS2045CF	0.57	10	180	175	ISOWATT220AB
45	2 x 10	STPS2045CFP	0.57	10	180	175	TO-220FPAC
45	2 x 10	STPS2045CG	0.57	10	180	175	D ² PAK
45	2 x 10	STPS2045CT	0.57	10	180	175	TO-220AB
45	2 x 15	STPS3045CG	0.57	15	220	175	D ² PAK
45	2 x 15	STPS3045CP	0.57	15	220	175	SOT-93
45	2 x 15	STPS3045CPI	0.57	15	220	175	TOP3 Ins.
45	2 x 15	STPS3045CT	0.57	15	220	175	TO-220AB
45	2 x 15	STPS3045CW	0.57	15	220	175	TO-247
45	2 x 20	STPS4045CP	0.63	20	220	175	SOT-93
45	2 x 20	STPS4045CW	0.63	20	220	175	TO-247
45	2 x 20	STPS40L45CT	0.49	20	230	150	TO-220AB
45	2 x 20	STPS40L45CW	0.49	20	230	150	TO-247
45	2 x 30	STPS6045CP	0.63	30	400	175	SOT-93
45	2 x 30	STPS6045CPI	0.63	30	400	150	TOP3 Ins.
45	2 x 30	STPS6045CW	0.63	30	400	175	TO-247
45	2 x 30	STPS60L45CW	0.5	30	600	175	TO-247
45	2 x 60	STPS12045TV	0.67	60	700	175	ISOTOP
45	2 x 80	STPS16045TV	0.69	80	900	175	ISOTOP
45	2 x 120	STPS24045TV	0.67	120	1500	175	ISOTOP
60	0.5	STPS0560Z	0.5	0.5	5.5	150	SOD-123
60	1	STPS160A	0.57	1	75	150	SMA
60	1	STPS160U	0.57	1	75	150	SMB
60	1	STPS1L60	0.56	1	10	150	DO-41
60	3	STPS3L60	0.61	3	10	150	DO-201AD
60	3	STPS3L60S	0.65	3	75	150	SMC
60	2 x 5	STPS10L60CF	0.52	5	180	150	ISOWATT220AB
60	2 x 5	STPS10L60CFP	0.52	5	180	150	TO-220FPAB
60	10	STPS10L60D	0.56	10	220	150	TO-220AC
60	2 x 10	STPS20L60CR	0.56	10	220	150	I ² PAK
60	2 x 10	STPS20L60CT	0.56	10	220	150	TO-220AB
60	2 x 15	STPS30L60CT	0.56	15	220	150	TO-220AB
60	2 x 15	STPS30L60CW	0.56	15	230	150	TO-247
60	2 x 40	STPS80L60CY	0.56	15	400	150	Max247
100	1	STPS1H100A	0.62	1	50	175	SMA
100	1	STPS1H100U	0.62	1	50	175	SMB
100	2	STPS2H100A	0.65	2	75	175	SMA
100	2	STPS2H100U	0.65	2	75	175	SMB
100	5	STPS5H100B	0.61	5	75	175	DPAK
100	8	STPS8H100D	0.58	8	250	175	TO-220AC
100	8	STPS8H100F	0.58	8	250	175	ISOWATT220AC
100	8	STPS8H100G	0.58	8	250	175	D ² PAK
100	8	STPS8H100R	0.58	8	250	175	I ² PAK
100	2 x 5	STPS10H100CG	0.61	5	180	175	D ² PAK
100	2 x 5	STPS10H100CR	0.61	5	180	175	I ² PAK
100	2 x 5	STPS10H100CT	0.61	5	180	175	TO-220AB
100	2 x 10	STPS20H100CF	0.64	10	250	175	ISOWATT220AB
100	2 x 10	STPS20H100CG	0.64	10	250	175	D ² PAK
100	2 x 10	STPS20H100CR	0.64	10	250	175	I ² PAK
100	2 x 10	STPS20H100CT	0.64	10	250	175	TO-220AB
100	2 x 15	STPS30H100CW	0.67	15	250	175	TO-247
100	2 x 20	STPS40H100CW	0.61	20	300	175	TO-247
100	2 x 40	STPS80H100CY	0.7	40	600	175	Max247
100	2 x 40	STPS80H100TV	0.65	40	700	150	ISOTOP
100	2 x 80	STPS160H100TV	0.68	80	1000	150	ISOTOP

200V, 400V AND 1000V, ULTRAFAST DIODES

Voltage max (V)	Current (A)	Part Number	V _F (max) @ rated current (V)	trr (max) (ns)	I _{FSM} (A)	T _j max (°C)	Package
200	1	SMBYW01-200	0.71	35	60	150	SMB
200	1	STPR120A	0.71	35	60	150	SMA
200	1.5	BYW100-200	0.85	35	50	150	DO-15
200	2	SMBYW02-200	0.85	35	50	150	SMB
200	3	BYW98-200	0.85	35	70	150	DO201-AD
200	3	STPR320	0.99	30	30	150	DO-15
200	4	SMBYW04-200	0.85	35	70	150	SMC
200	5	STPR520D	0.99	30	50	150	TO-220AC
200	5	STPR520F	0.99	30	50	150	ISOWATT220AC
200	5	STPR520FP	0.99	30	50	150	TO-220FPAC
200	2 x 3	STPR620CF	0.99	30	30	150	ISOWATT220AB
200	2 x 3	STPR620CT	0.99	30	30	150	TO-220AB
200	8	BYW29-200	0.85	35	80	150	TO-220AC
200	8	BYW29F-200	0.85	35	80	150	ISOWATT220AC
200	8	BYW29FP-200	0.85	35	80	150	TO-220FPAC
200	8	BYW29G-200	0.85	35	80	150	D ² PAK
200	8	STPR820D	0.99	30	80	150	TO-220AC
200	8	STPR820F	0.99	30	80	150	ISOWATT220AC
200	8	STPR820FP	0.99	30	80	150	TO-220FPAC
200	10	BYW80-200	0.85	35	100	150	TO-220AC
200	10	BYW80F-200	0.85	35	100	150	ISOWATT220AC
200	10	BYW80FP-200	0.85	35	100	150	TO-220FPAC
200	10	BYW80PI-200	0.85	35	100	150	TO-220AC Ins.
200	2 x 5	STPR1020CF	0.99	30	50	150	ISOWATT220AB
200	2 x 5	STPR1020CFP	0.99	30	50	150	TO-220FPAB
200	2 x 5	STPR1020CG	0.99	30	50	150	D ² PAK
200	2 x 5	STPR1020CT	0.99	30	50	150	TO-220AB
200	15	BYW81P-200	0.85	40	200	150	TO-220AC
200	15	BYW81PI-200	0.85	40	200	150	TO-220AC Ins.
200	15	STPR1520D	0.99	30	150	150	TO-220AC
200	2 x 8	STPR1620CG	0.99	30	80	150	D ² PAK
200	2 x 8	STPR1620CT	0.99	30	80	150	TO-220AB
200	2 x 10	BYW51-200	0.85	35	100	150	TO-220AB
200	2 x 10	BYW51F-200	0.85	35	100	150	ISOWATT220AB
200	2 x 10	BYW51FP-200	0.85	35	100	150	TO-220FPAB
200	2 x 10	BYW51G-200	0.85	35	100	150	D ² PAK
200	25	BYW77G-200	0.85	50	500	150	D ² PAK
200	25	BYW77P-200	0.85	50	500	150	SOD-93
200	25	BYW77PI-200	0.85	50	500	150	DOP3 Ins.
200	2 x 15	BYW99P-200	0.85	40	200	150	SOT-93
200	2 x 15	BYW99PI-200	0.85	40	200	150	TOP3 Ins.
200	2 x 15	BYW99W-200	0.85	40	200	150	TO-247
200	2 x 30	BYV52-200	0.85	50	500	150	SOT-93
200	2 x 30	BYV52PI-200	0.85	50	500	150	TOP3 Ins.
200	2 x 50	BYV541V-200	0.85	60	1000	150	ISOTOP
200	2 x 50	BYV54V-200	0.85	60	1000	150	ISOTOP
200	2 x 100	BYV255V-200	0.85	80	1600	150	ISOTOP
400	1	BYT01-400	1.4	55	30	150	DO-15
400	1	SMBYT01-400	1.4	60	30	150	SMB
400	3	BYT03-400	1.4	55	60	150	DO201-AD
400	3	SMBYT03-400	1.4	60	60	150	SMC
400	8	BYT08P-400	1.4	75	100	150	TO-220AC
400	8	BYT08PI-400	1.4	75	100	150	TO-220AC Ins.
400	2 x 8	BYT16P-400	1.4	75	100	150	TO-220AB
400	30	BYT30G-400	1.4	100	350	150	D ² PAK
400	30	BYT30P-400	1.4	100	350	150	SOD-93
400	30	BYT30PI-400	1.4	100	350	150	DOP3 Ins.
400	2 x 30	BYT230PIV-400	1.4	100	350	150	ISOTOP
400	2 x 30	BYT230Y-400	1.4	100	300	150	Max247
400	2 x 30	BYT231PIV-400	1.4	100	350	150	ISOTOP

POWER RECTIFIERS

Contd.

Voltage max (V)	Current (A)	Part Number	V _F (max) @ rated current (V)	trr (max) (ns)	I _{FSM} (A)	T _j max (°C)	Package
400	60	BYT60P-400	1.4	100	550	150	SOD-93
400	2 x 60	BYT261PIV-400	1.4	100	600	150	ISOTOP
400	2 x 100	BYT200PIV-400	1.4	100	600	150	ISOTOP
1000	8	BYT08P-1000	1.8	155	50	150	TO-220AC
1000	12	BYT12P-1000	1.8	155	75	150	TO-220AC
1000	12	BYT12PI-1000	1.8	155	75	150	TO-220AC Ins.
1000	30	BYT30P-1000	1.8	165	200	150	SOD-93
1000	30	BYT30PI-1000	1.8	165	200	150	DOP3 Ins.
1000	2 x 30	BYT230PIV-1000	1.8	165	200	150	ISOTOP
1000	2 x 30	BYT231PIV-1000	1.8	165	200	150	ISOTOP
1000	60	BYT60P-1000	1.8	170	400	150	SOD-93
1000	2 x 60	BYT261PIV-1000	1.8	170	400	150	ISOTOP

300V TURBOSWITCH DIODES

Voltage max (V)	Current (A)	Part Number	V _F max @ rated current (V)	trr max (ns)	I _{FSM} (A)	T _j max (°C)	Package
300	8	STTH803D	1	35	100	175	TO-220AC
300	8	STTH803G	1	35	100	175	D ² PAK
300	8	STTH803R	1	35	100	175	I ² PAK
300	8	STTH8R03D	1.3	30	100	150	TO-220AC
300	8	STTH8R03G	1.3	30	100	150	D ² PAK
300	2 x 10	STTH2003CF	1	35	110	175	ISOWATT220AB
300	2 x 10	STTH2003CG	1	35	110	175	D ² PAK
300	2 x 10	STTH2003CT	1	35	110	175	TO-220AB
300	2 x 15	STTH3003CW	1	40	140	175	TO-247
300	2 x 15	STTH30R03CG	1.4	30	140	150	D ² PAK
300	2 x 15	STTH30R03CW	1.4	30	140	150	TO-247
300	2 x 30	STTH6003CW	1	55	300	175	TO-247
300	2 x 30	STTH6003TV1	1	55	400	150	ISOTOP
300	2 x 40	STTH8003CY	1	60	400	150	Max247
300	2 x 60	STTH12003TV1	1	70	600	150	ISOTOP
300	2 x 80	STTH16003TV1	0.95	80	800	150	ISOTOP
300	2 x 100	STTH20003TV1	0.95	90	1000	150	ISOTOP

DAMPER DIODES

Voltage (V)	Monitor Freq.	Part Number	V _F max (V)	trr max (ns)	T _j max (°C)	Package
1500	16 kHz TV	DTV16D	1.5 @ 5 A	300	150	TO-220AC
1500	16 kHz TV	DTV16F	1.5 @ 5 A	300	150	ISOWATT220AC
1500	> 82 kHz	DTV82D	1.3 @ 6 A	125	150	TO-220AC
1500	> 82 kHz	DTV82F	1.3 @ 6 A	125	150	ISOWATT220AC
1500	> 110 kHz	DTV110D	1.5 @ 10 A	115	150	TO-220AC
1500	> 110 kHz	DTV110F	1.5 @ 10 A	115	150	ISOWATT220AC
1500	Medium freq.	DTV1500MD	1.65 @ 6 A	135	150	TO-220AC
1500	Medium freq.	DTV1500MF	1.65 @ 6 A	135	150	ISOWATT220AC
1500	Medium freq.	DTV1500MFP	1.65 @ 6 A	135	150	TO-220FPAC
1500	High freq.	DTV1500HF	1.7 @ 6 A	125	150	ISOWATT220AC
1500	High freq.	DTV1500HD	1.7 @ 6 A	125	150	TO-220AC
1500	High freq.	DTV1500HFP	1.7 @ 6 A	125	150	TO-220FPAC

600V AND 1200V, TURBOSWITCH DIODES

Voltage max (V)	Current (A)	Part Number	V _F max @ rated current (V)	trr max (ns)	I _{FRM} (A)	I _{FSM} (A)	T _j max (°C)	Package
600	1	STTA106U	1.5	50	10	25	125	SMB
600	2	STTA206S	1.5	50	20	35	125	SMC
600	3	STTA306B	1.65	50	20	35	125	DPAK
600	4	STTA406	1.5	55	30	80	125	DO-201AD
600	5	STTA506B	1.5	50	65	55	150	DPAK
600	5	STTA506D	1.5	50	65	55	150	TO-220AC
600	5	STTA506F	1.5	50	65	55	150	ISOWATT220AC
600	8	STTA806D	1.5	52	110	90	150	TO-220AC
600	8	STTA806DI	1.5	52	110	90	150	TO-220AC Ins.
600	8	STTA806G	1.5	52	110	90	150	D ² PAK
600	8	STTH806TTI	2.6	30	-	80	150	TO-220AB Ins.
600	8	STTH8R06D	1.8	45	20	80	175	TO-220AC
600	8	STTH8R06FP	1.8	45	20	80	175	TO-220FPAC
600	12	STTA1206D	1.5	55	160	110	150	TO-220AC
600	12	STTA1206DI	1.5	55	120	110	150	TO-220AC Ins.
600	20	STTA2006P	1.5	60	270	180	150	SOD-93
600	20	STTA2006PI	1.5	60	270	180	150	DOP3 Ins.
600	2 x 15	STTA3006CW	1.6	65	200	230	150	TO-247
600	30	STTA3006P	1.5	65	300	230	150	SOD-93
600	30	STTA3006PI	1.5	65	300	230	150	DOP3 Ins.
600	60	STTA6006P	1.5	80	450	500	150	SOD-93
600	2 x 30	STTA6006TV1/2	1.5	65	300	230	150	ISOTOP
600	2 x 60	STTA12006TV1/2	1.5	80	450	500	150	ISOTOP
1200	1	STTA112U	1.5	115	10	20	125	SMB
1200	2	STTA212S	1.5	115	20	25	125	SMC
1200	5	STTA512B	2	95	70	45	150	DPAK
1200	5	STTA512D	2	95	70	45	150	TO-220AC
1200	5	STTA512F	2	95	70	45	150	ISOWATT220AC
1200	8	STTA812D	2	100	110	70	150	TO-220AC
1200	8	STTA812DI	2	100	110	70	150	TO-220AC Ins.
1200	12	STTA1212D	2	100	160	100	150	TO-220AC
1200	15	STTA1512P	1.9	105	220	150	150	SOD-93
1200	15	STTA1512PI	1.9	105	220	150	150	DOP3 Ins.
1200	25	STTA2512P	1.9	110	300	210	150	SOD-93
1200	2 x 25	STTA5012TV1/2	1.9	110	300	210	150	ISOTOP
1200	2 x 45	STTA9012TV1/2	1.85	115	700	420	150	ISOTOP

DAMPER + MODULATION DIODES

Voltage (V)	Monitor Freq.	Part Number	Functions	V _F max (V)	trr max (ns)	T _j max (°C)	Package
1500 / 600	> 16 kHz	DMV16	Damper / Modulation	1.5 @ 5A 1.3 @ 3A	300 / 95	150	TO-220AB Ins.
1500 / 600	> 56 kHz	DMV56	Damper / Modulation	1.5 @ 6A 1.5 @ 5A	135 / 50	150	TO-220AB Ins.
1500 / 600	Medium Freq.	DMV1500M	Damper / Modulation	1.65 @ 6A / 1.4 @ 3A	135 / 50	150	TO-220AB Ins.

PROTECTION CIRCUITS

TRANSIENT VOLTAGE SUPPRESSORS: 400W TRANSILS - AXIAL

Power (W)	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
400	5.8	1000	BZW04-5V8	Unidirect.	6.45	10	10.5	38	F126
400	5.8	1000	BZW04-5V8B	Bidirect.	6.45	10	10.5	38	F126
400	10.2	5	BZW04-10	Unidirect.	11.4	1	16.7	24	F126
400	10.2	5	BZW04-10B	Bidirect.	11.4	1	16.7	24	F126
400	12.8	5	BZW04-13	Unidirect.	14.3	1	21.2	19	F126
400	12.8	5	BZW04-13B	Bidirect.	14.3	1	21.2	19	F126
400	15.3	1	BZW04-15	Unidirect.	17.1	1	25.2	16	F126
400	15.3	1	BZW04-15B	Bidirect.	17.1	1	25.2	16	F126
400	25.6	1	BZW04-26	Unidirect.	28.5	1	41.5	9.6	F126
400	25.6	1	BZW04-26B	Bidirect.	28.5	1	41.5	9.6	F126
400	30.8	1	BZW04-31	Unidirect.	34.2	1	49.9	8	F126
400	30.8	1	BZW04-31B	Bidirect.	34.2	1	49.9	8	F126
400	33.3	1	BZW04-33	Unidirect.	37.1	1	53.9	7.4	F126
400	33.3	1	BZW04-33B	Bidirect.	37.1	1	53.9	7.4	F126
400	47.8	1	BZW04-48	Unidirect.	53.2	1	77	5.2	F126
400	47.8	1	BZW04-48B	Bidirect.	53.2	1	77	5.2	F126
400	342	1	BZW04-342	Unidirect.	380	1	548	0.9	F126
400	342	1	BZW04-342B	Bidirect.	380	1	548	0.9	F126
400	376	1	BZW04-376	Unidirect.	418	1	603	0.8	F126
400	376	1	BZW04-376B	Bidirect.	418	1	603	0.8	F126

TRANSIENT VOLTAGE SUPPRESSORS: 400W TRANSILS - SMA

Power (W)	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
400	5	800	SMAJ5.0A-TR	Unidirect.	6.4	10	9.2	43.5	SMA
400	5	800	SMAJ5.0CA-TR	Bidirect.	6.4	10	9.2	43.5	SMA
400	6	800	SMAJ6.0A-TR	Unidirect.	6.7	10	10.3	38.8	SMA
400	6	800	SMAJ6.0CA-TR	Bidirect.	6.7	10	10.3	38.8	SMA
400	6.5	500	SMAJ6.5A-TR	Unidirect.	7.2	10	11.2	35.7	SMA
400	6.5	500	SMAJ6.5CA-TR	Bidirect.	7.2	10	11.2	35.7	SMA
400	10	5	SMAJ10A-TR	Unidirect.	11.1	1	17	23.5	SMA
400	10	5	SMAJ10CA-TR	Bidirect.	11.1	1	17	23.5	SMA
400	12	5	SMAJ12A-TR	Unidirect.	13.3	1	19.9	20.1	SMA
400	12	5	SMAJ12CA-TR	Bidirect.	13.3	1	19.9	20.1	SMA
400	13	1	SMAJ13A-TR	Unidirect.	14.4	1	21.5	18.6	SMA
400	13	1	SMAJ13CA-TR	Bidirect.	14.4	1	21.5	18.6	SMA
400	15	1	SMAJ15A-TR	Unidirect.	16.7	1	24.4	16.4	SMA
400	15	1	SMAJ15CA-TR	Bidirect.	16.7	1	24.4	16.4	SMA
400	18	1	SMAJ18A-TR	Unidirect.	20	1	29.2	13.7	SMA
400	18	1	SMAJ18CA-TR	Bidirect.	20	1	29.2	13.7	SMA
400	22	1	SMAJ22A-TR	Unidirect.	24.4	1	35.5	11.2	SMA
400	22	1	SMAJ22CA-TR	Bidirect.	24.4	1	35.5	11.2	SMA
400	24	1	SMAJ24A-TR	Unidirect.	26.7	1	38.9	10.3	SMA
400	24	1	SMAJ24CA-TR	Bidirect.	26.7	1	38.9	10.3	SMA
400	26	1	SMAJ26A-TR	Unidirect.	28.9	1	42.1	9.5	SMA
400	26	1	SMAJ26CA-TR	Bidirect.	28.9	1	42.1	9.5	SMA
400	28	1	SMAJ28A-TR	Unidirect.	31.1	1	45.4	8.8	SMA
400	28	1	SMAJ28CA-TR	Bidirect.	31.1	1	45.4	8.8	SMA
400	30	1	SMAJ30A-TR	Unidirect.	33.3	1	48.4	8.3	SMA
400	30	1	SMAJ30CA-TR	Bidirect.	33.3	1	48.4	8.3	SMA
400	33	1	SMAJ33A-TR	Unidirect.	36.7	1	53.3	7.5	SMA
400	33	1	SMAJ33CA-TR	Bidirect.	36.7	1	53.3	7.5	SMA

PROTECTION CIRCUITS

Contd.

Power (W)	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
400	40	1	SMAJ40A-TR	Unidirect.	44.4	1	64.5	6.2	SMA
400	40	1	SMAJ40CA-TR	Bidirect.	44.4	1	64.5	6.2	SMA
400	43	1	SMAJ43A-TR	Unidirect.	47.8	1	69.7	5.7	SMA
400	43	1	SMAJ43CA-TR	Bidirect.	47.8	1	69.7	5.7	SMA
400	48	1	SMAJ48A-TR	Unidirect.	53.3	1	77.4	5.2	SMA
400	48	1	SMAJ48CA-TR	Bidirect.	53.3	1	77.4	5.2	SMA
400	58	1	SMAJ58A-TR	Unidirect.	64.4	1	93.6	4.3	SMA
400	58	1	SMAJ58CA-TR	Bidirect.	64.4	1	93.6	4.3	SMA
400	70	1	SMAJ70A-TR	Unidirect.	77.8	1	113	3.5	SMA
400	70	1	SMAJ70CA-TR	Bidirect.	77.8	1	113	3.5	SMA
400	85	1	SMAJ85A-TR	Unidirect.	94.4	1	137	2.9	SMA
400	85	1	SMAJ85CA-TR	Bidirect.	94.4	1	137	2.9	SMA
400	130	1	SMAJ130A-TR	Unidirect.	144	1	209	1.9	SMA
400	130	1	SMAJ130CA-TR	Bidirect.	144	1	209	1.9	SMA
400	170	1	SMAJ170A-TR	Unidirect.	189	1	275	1.4	SMA
400	170	1	SMAJ170CA-TR	Bidirect.	189	1	275	1.4	SMA
400	188	1	SMAJ188A-TR	Unidirect.	209	1	328	1.4	SMA
400	188	1	SMAJ188CA-TR	Bidirect.	209	1	328	1.4	SMA

TRANSIENT VOLTAGE SUPPRESSORS: 600W TRANSILS - AXIAL

Power (W)	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
600	5.8	1000	BZW06-5V8	Unidirect.	6.45	10	10.5	57	F126
600	5.8	1000	BZW06-5V8B	Bidirect.	6.45	10	10.5	57	F126
600	6.4	500	BZW06-6V4	Unidirect.	7.13	10	11.3	53	F126
600	6.4	500	BZW06-6V4B	Bidirect.	7.13	10	11.3	53	F126
600	10.2	5	BZW06-10	Unidirect.	11.4	1	16.7	36	F126
600	10.2	5	BZW06-10B	Bidirect.	11.4	1	16.7	36	F126
600	12.8	5	BZW06-13	Unidirect.	14.3	1	21.2	28	F126
600	12.8	5	BZW06-13B	Bidirect.	14.3	1	21.2	28	F126
600	13.6	5	BZW06-14	Unidirect.	15.2	1	22.5	27	F126
600	13.6	5	BZW06-14B	Bidirect.	15.2	1	22.5	27	F126
600	15.3	1	BZW06-15	Unidirect.	17.1	1	25.2	24	F126
600	15.3	1	BZW06-15B	Bidirect.	17.1	1	25.2	24	F126
600	23.1	1	BZW06-23	Unidirect.	25.7	1	37.5	16	F126
600	23.1	1	BZW06-23B	Bidirect.	25.7	1	37.5	16	F126
600	25.6	1	BZW06-26	Unidirect.	28.5	1	41.5	14.5	F126
600	25.6	1	BZW06-26B	Bidirect.	28.5	1	41.5	14.5	F126
600	28.2	1	BZW06-28	Unidirect.	31.4	1	45.7	13.1	F126
600	28.2	1	BZW06-28B	Bidirect.	31.4	1	45.7	13.1	F126
600	30.8	1	BZW06-31	Unidirect.	34.2	1	49.9	12	F126
600	30.8	1	BZW06-31B	Bidirect.	34.2	1	49.9	12	F126
600	33.3	1	BZW06-33	Unidirect.	37.1	1	53.9	11.1	F126
600	33.3	1	BZW06-33B	Bidirect.	37.1	1	53.9	11.1	F126
600	47.8	1	BZW06-48	Unidirect.	53.2	1	77	7.8	F126
600	47.8	1	BZW06-48B	Bidirect.	53.2	1	77	7.8	F126
600	273	1	BZW06-273	Unidirect.	304	1	438	1.6	F126
600	273	1	BZW06-273B	Bidirect.	304	1	438	1.6	F126
600	342	1	BZW06-342	Unidirect.	380	1	548	1.3	F126
600	342	1	BZW06-342B	Bidirect.	380	1	548	1.3	F126
600	376	1	BZW06-376	Unidirect.	418	1	603	1.3	F126
600	376	1	BZW06-376B	Bidirect.	418	1	603	1.3	F126

PROTECTION CIRCUITS

Contd.

Power (W)	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
600	5.8	1000	P6KE6V8A	Unidirect.	6.45	10	10.5	57	CB417
600	5.8	1000	P6KE6V8CA	Bidirect.	6.45	10	10.5	57	CB417
600	6.4	500	P6KE7V5A	Unidirect.	7.13	10	11.3	53	CB417
600	6.4	500	P6KE7V5CA	Bidirect.	7.13	10	11.3	53	CB417
600	12.8	1	P6KE15A	Unidirect.	14.3	1	21.2	28	CB417
600	12.8	1	P6KE15CA	Bidirect.	14.3	1	21.2	28	CB417
600	15.3	1	P6KE18A	Unidirect.	17.1	1	25.2	24	CB417
600	15.3	1	P6KE18CA	Bidirect.	17.1	1	25.2	24	CB417
600	23.1	1	P6KE27A	Unidirect.	25.7	1	37.5	16	CB417
600	23.1	1	P6KE27CA	Bidirect.	25.7	1	37.5	16	CB417
600	25.6	1	P6KE30A	Unidirect.	28.5	1	41.5	14.5	CB417
600	25.6	1	P6KE30CA	Bidirect.	28.5	1	41.5	14.5	CB417
600	28.2	1	P6KE33A	Unidirect.	31.4	1	45.7	13.1	CB417
600	28.2	1	P6KE33CA	Bidirect.	31.4	1	45.7	13.1	CB417
600	30.8	1	P6KE36A	Unidirect.	34.2	1	49.9	12	CB417
600	30.8	1	P6KE36CA	Bidirect.	34.2	1	49.9	12	CB417
600	33.3	1	P6KE39A	Unidirect.	37.1	1	53.9	11.1	CB417
600	33.3	1	P6KE39CA	Bidirect.	37.1	1	53.9	11.1	CB417
600	47.8	1	P6KE56A	Unidirect.	53.2	1	77	7.8	CB417
600	47.8	1	P6KE56CA	Bidirect.	53.2	1	77	7.8	CB417
600	58.1	1	P6KE68A	Unidirect.	64.6	1	92	6.5	CB417
600	58.1	1	P6KE68CA	Bidirect.	64.6	1	92	6.5	CB417
600	70.1	1	P6KE82A	Unidirect.	77.9	1	113	5.3	CB417
600	70.1	1	P6KE82CA	Bidirect.	77.9	1	113	5.3	CB417
600	171	1	P6KE200A	Unidirect.	190	1	274	2.2	CB417
600	171	1	P6KE200CA	Bidirect.	190	1	274	2.2	CB417
600	213	1	P6KE250A	Unidirect.	237	1	344	2	CB417
600	213	1	P6KE250CA	Bidirect.	237	1	344	2	CB417
600	256	1	P6KE300A	Unidirect.	285	1	414	1.6	CB417
600	256	1	P6KE300CA	Bidirect.	285	1	414	1.6	CB417
600	342	1	P6KE400A	Unidirect.	380	1	548	1.3	CB417
600	342	1	P6KE400CA	Bidirect.	380	1	548	1.3	CB417
600	376	1	P6KE440A	Unidirect.	418	1	603	1.3	CB417
600	376	1	P6KE440CA	Bidirect.	418	1	603	1.3	CB417

TRANSIENT VOLTAGE SUPPRESSORS: HIGH TEMPERATURE 600W TRANSILS - SMB

Power	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
600	20.5	2	SM6HT24A	Unidirect.	22.8	1	33.2	18	SMB
600	23.1	2	SM6HT27A	Unidirect.	25.7	1	27.5	16	SMB
600	25.6	2	SM6HT30A	Unidirect.	28.5	1	41.5	14.5	SMB
600	30.8	2	SM6HT36A	Unidirect.	34.2	1	49.9	12	SMB
600	33.3	2	SM6HT39A	Unidirect.	27.1	1	53.9	11.1	SMB
600	36.8	2	SM6HT43A	Unidirect.	40.9	1	59.3	10.1	SMB

TRANSIENT VOLTAGE SUPPRESSORS: 600W TRANSILS - SMB

Power (W)	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
600	5.8	1000	SM6T6V8A	Unidirect.	6.45	10	10.5	57	SMB
600	5.8	1000	SM6T6V8CA	Bidirect.	6.45	10	10.5	57	SMB
600	6.4	500	SM6T7V5A	Unidirect.	7.13	10	11.3	53	SMB
600	6.4	500	SM6T7V5CA	Bidirect.	7.13	10	11.3	53	SMB
600	8.55	10	SM6T10A	Unidirect.	9.5	1	14.5	41	SMB
600	8.55	10	SM6T10CA	Bidirect.	9.5	1	14.5	41	SMB
600	10.2	5	SM6T12A	Unidirect.	11.4	1	16.7	36	SMB
600	10.2	5	SM6T12CA	Bidirect.	11.4	1	16.7	36	SMB
600	12.8	5	SM6T15A	Unidirect.	14.3	1	21.2	28	SMB
600	12.8	5	SM6T15CA	Bidirect.	14.3	1	21.2	28	SMB
600	15.3	5	SM6T18A	Unidirect.	17.1	1	25.2	24	SMB
600	15.3	5	SM6T18CA	Bidirect.	17.1	1	25.2	24	SMB
600	18.8	5	SM6T22A	Unidirect.	20.9	1	30.6	20	SMB
600	18.8	5	SM6T22CA	Bidirect.	20.9	1	30.6	20	SMB
600	20.5	5	SM6T24A	Unidirect.	22.8	1	33.2	18	SMB
600	20.5	5	SM6T24CA	Bidirect.	22.8	1	33.2	18	SMB
600	23.1	5	SM6T27A	Unidirect.	25.7	1	37.5	16	SMB
600	23.1	5	SM6T27CA	Bidirect.	25.7	1	37.5	16	SMB
600	25.6	5	SM6T30A	Unidirect.	28.5	1	41.5	14.5	SMB
600	25.6	5	SM6T30CA	Bidirect.	28.5	1	41.5	14.5	SMB
600	28.2	5	SM6T33A	Unidirect.	31.4	1	45.7	13.1	SMB
600	28.2	5	SM6T33CA	Bidirect.	31.4	1	45.7	13.1	SMB
600	30.8	5	SM6T36A	Unidirect.	34.2	1	49.9	12	SMB
600	30.8	5	SM6T36CA	Bidirect.	34.2	1	49.9	12	SMB
600	33.3	5	SM6T39A	Unidirect.	37.1	1	53.9	11.1	SMB
600	33.3	5	SM6T39CA	Bidirect.	37.1	1	53.9	11.1	SMB
600	58.1	5	SM6T68A	Unidirect.	64.6	1	92	6.5	SMB
600	58.1	5	SM6T68CA	Bidirect.	64.6	1	92	6.5	SMB
600	85.5	5	SM6T100A	Unidirect.	95	1	137	4.4	SMB
600	85.5	5	SM6T100CA	Bidirect.	95	1	137	4.4	SMB
600	128	5	SM6T150A	Unidirect.	143	1	207	2.9	SMB
600	128	5	SM6T150CA	Bidirect.	143	1	207	2.9	SMB
600	171	5	SM6T200A	Unidirect.	190	1	274	2.2	SMB
600	171	5	SM6T200CA	Bidirect.	190	1	274	2.2	SMB
600	188	5	SM6T220A	Unidirect.	209	1	328	2	SMB
600	188	5	SM6T220CA	Bidirect.	209	1	328	2	SMB
600	5	800	SMBJ5.0A-TR	Unidirect.	6.4	10	9.2	68	SMB
600	5	800	SMBJ5.0CA-TR	Bidirect.	6.4	10	9.2	68	SMB
600	6	800	SMBJ6.0A-TR	Unidirect.	6.7	10	10.3	61	SMB
600	6	800	SMBJ6.0CA-TR	Bidirect.	6.7	10	10.3	61	SMB
600	6.5	500	SMBJ6.5A-TR	Unidirect.	7.2	10	11.2	56	SMB
600	6.5	500	SMBJ6.5CA-TR	Bidirect.	7.2	10	11.2	56	SMB
600	10	5	SMBJ10A-TR	Unidirect.	11.1	1	17	37	SMB
600	10	5	SMBJ10CA-TR	Bidirect.	11.1	1	17	37	SMB
600	12	5	SMBJ12A-TR	Unidirect.	13.3	1	19.9	31	SMB
600	12	5	SMBJ12CA-TR	Bidirect.	13.3	1	19.9	31	SMB
600	13	1	SMBJ13A-TR	Unidirect.	14.4	1	21.5	29	SMB
600	13	1	SMBJ13CA-TR	Bidirect.	14.4	1	21.5	29	SMB
600	15	1	SMBJ15A-TR	Unidirect.	16.7	1	24.4	25.1	SMB
600	15	1	SMBJ15CA-TR	Bidirect.	16.7	1	24.4	25.1	SMB
600	18	1	SMBJ18A-TR	Unidirect.	20	1	29.2	21.5	SMB
600	18	1	SMBJ18CA-TR	Bidirect.	20	1	29.2	21.5	SMB
600	22	1	SMBJ22A-TR	Unidirect.	24.4	1	35.5	17.7	SMB
600	22	1	SMBJ22CA-TR	Bidirect.	24.4	1	35.5	17.7	SMB
600	24	1	SMBJ24A-TR	Unidirect.	26.7	1	38.9	16	SMB
600	24	1	SMBJ24CA-TR	Bidirect.	26.7	1	38.9	16	SMB

PROTECTION CIRCUITS

Contd.

Power (W)	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
600	26	1	SMBJ26A-TR	Unidirect.	28.9	1	42.1	14.9	SMB
600	26	1	SMBJ26CA-TR	Bidirect.	28.9	1	42.1	14.9	SMB
600	28	1	SMBJ28A-TR	Unidirect.	31.1	1	45.4	13.8	SMB
600	28	1	SMBJ28CA-TR	Bidirect.	31.1	1	45.4	13.8	SMB
600	30	1	SMBJ30A-TR	Unidirect.	33.3	1	48.4	13	SMB
600	30	1	SMBJ30CA-TR	Bidirect.	33.3	1	48.4	13	SMB
600	33	1	SMBJ33A-TR	Unidirect.	36.7	1	53.3	11.8	SMB
600	33	1	SMBJ33CA-TR	Bidirect.	36.7	1	53.3	11.8	SMB
600	40	1	SMBJ40A-TR	Unidirect.	44.4	1	64.5	9.7	SMB
600	40	1	SMBJ40CA-TR	Bidirect.	44.4	1	64.5	9.7	SMB
600	48	1	SMBJ48A-TR	Unidirect.	53.3	1	77.4	8.1	SMB
600	48	1	SMBJ48CA-TR	Bidirect.	53.3	1	77.4	8.1	SMB
600	58	1	SMBJ58A-TR	Unidirect.	64.4	1	93.6	6.7	SMB
600	58	1	SMBJ58CA-TR	Bidirect.	64.4	1	93.6	6.7	SMB
600	70	1	SMBJ70A-TR	Unidirect.	77.8	1	113	5.5	SMB
600	70	1	SMBJ70CA-TR	Bidirect.	77.8	1	113	5.5	SMB
600	85	1	SMBJ85A-TR	Unidirect.	94.4	1	137	4.6	SMB
600	85	1	SMBJ85CA-TR	Bidirect.	94.4	1	137	4.6	SMB
600	130	1	SMBJ130A-TR	Unidirect.	144	1	209	3	SMB
600	130	1	SMBJ130CA-TR	Bidirect.	144	1	209	3	SMB
600	170	1	SMBJ170A-TR	Unidirect.	189	1	275	2.2	SMB
600	170	1	SMBJ170CA-TR	Bidirect.	189	1	275	2.2	SMB
600	188	1	SMBJ188A-TR	Unidirect.	209	1	328	2	SMB
600	188	1	SMBJ188CA-TR	Bidirect.	209	1	328	2	SMB

TRANSIENT VOLTAGE SUPPRESSORS: DIGITAL PURPOSE 600W TRANSILS - SMB

Power	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
600	3.3	200	SMLVT3V3	-	4.1	1	7.3	50	SMB

TRANSIENT VOLTAGE SUPPRESSORS: 1500W TRANSILS - AXIAL

Power	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
1500	5	300	1N5908	Unidirect.	6	1	7.6	30	CB429
1500	5.8	1000	1.5KE6V8A	Unidirect.	6.45	10	10.5	143	CB429
1500	5.8	1000	1.5KE6V8CA	Bidirect.	6.45	10	10.5	143	CB429
1500	6.4	500	1.5KE7V5A	Unidirect.	7.13	10	11.3	132	CB429
1500	6.4	500	1.5KE7V5CA	Bidirect.	7.13	10	11.3	132	CB429
1500	12.8	1	1.5KE15A	Unidirect.	14.3	1	21.2	71	CB429
1500	12.8	1	1.5KE15CA	Bidirect.	14.3	1	21.2	71	CB429
1500	15.3	1	1.5KE18A	Unidirect.	17.1	1	25.2	59.5	CB429
1500	15.3	1	1.5KE18CA	Bidirect.	17.1	1	25.2	59.5	CB429
1500	18.8	1	1.5KE22A	Unidirect.	20.9	1	30.6	49	CB429
1500	18.8	1	1.5KE22CA	Bidirect.	20.9	1	30.6	49	CB429
1500	20.5	1	1.5KE24A	Unidirect.	22.8	1	33.2	45	CB429
1500	20.5	1	1.5KE24CA	Bidirect.	22.8	1	33.2	45	CB429
1500	25.6	1	1.5KE30A	Unidirect.	28.5	1	41.5	36	CB429
1500	25.6	1	1.5KE30CA	Bidirect.	28.5	1	41.5	36	CB429
1500	28.2	1	1.5KE33A	Unidirect.	31.4	1	45.7	33	CB429
1500	28.2	1	1.5KE33CA	Bidirect.	31.4	1	45.7	33	CB429
1500	30.8	1	1.5KE36A	Unidirect.	34.2	1	49.9	30	CB429
1500	30.8	1	1.5KE36CA	Bidirect.	34.2	1	49.9	30	CB429

PROTECTION CIRCUITS

Contd.

Power	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
1500	33.3	1	1.5KE39A	Unidirect.	37.1	1	53.9	28	CB429
1500	33.3	1	1.5KE39CA	Bidirect.	37.1	1	53.9	28	CB429
1500	40.2	1	1.5KE47A	Unidirect.	44.7	1	64.3	23.2	CB429
1500	40.2	1	1.5KE47CA	Bidirect.	44.7	1	64.3	23.2	CB429
1500	47.8	1	1.5KE56A	Unidirect.	53.2	1	77	19.5	CB429
1500	47.8	1	1.5KE56CA	Bidirect.	53.2	1	77	19.5	CB429
1500	53	1	1.5KE62A	Unidirect.	58.9	1	85	17.7	CB429
1500	53	1	1.5KE62CA	Bidirect.	58.9	1	85	17.7	CB429
1500	58.1	1	1.5KE68A	Unidirect.	64.6	1	92	16.3	CB429
1500	58.1	1	1.5KE68CA	Bidirect.	64.6	1	92	16.3	CB429
1500	70.1	1	1.5KE82A	Unidirect.	77.9	1	113	13.3	CB429
1500	70.1	1	1.5KE82CA	Bidirect.	77.9	1	113	13.3	CB429
1500	85.5	1	1.5KE100A	Unidirect.	95	1	137	11	CB429
1500	85.5	1	1.5KE100CA	Bidirect.	95	1	137	11	CB429
1500	154	1	1.5KE180A	Unidirect.	171	1	246	6.1	CB429
1500	154	1	1.5KE180CA	Bidirect.	171	1	246	6.1	CB429
1500	171	1	1.5KE200A	Unidirect.	190	1	274	5.5	CB429
1500	171	1	1.5KE200CA	Bidirect.	190	1	274	5.5	CB429
1500	188	1	1.5KE220A	Unidirect.	209	1	328	4.6	CB429
1500	188	1	1.5KE220CA	Bidirect.	209	1	328	4.6	CB429
1500	213	1	1.5KE250A	Unidirect.	237	1	344	5	CB429
1500	213	1	1.5KE250CA	Bidirect.	237	1	344	5	CB429
1500	256	1	1.5KE300A	Unidirect.	285	1	414	5	CB429
1500	256	1	1.5KE300CA	Bidirect.	285	1	414	5	CB429
1500	299	1	1.5KE350A	Unidirect.	332	1	482	4	CB429
1500	299	1	1.5KE350CA	Bidirect.	332	1	482	4	CB429
1500	342	1	1.5KE400A	Unidirect.	380	1	548	4	CB429
1500	342	1	1.5KE400CA	Bidirect.	380	1	548	4	CB429
1500	376	1	1.5KE440A	Unidirect.	418	1	603	3.5	CB429
1500	376	1	1.5KE440CA	Bidirect.	418	1	603	3.5	CB429

TRANSIENT VOLTAGE SUPPRESSORS: 1500W TRANSILS - SMC

Power	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
1500	5	300	SM5908	Unidirect.	6	1	7.6	30	SMC
1500	5.8	1000	SM15T6V8A	Unidirect.	6.45	10	10.5	143	SMC
1500	5.8	1000	SM15T6V8CA	Bidirect.	6.45	10	10.5	143	SMC
1500	6.4	500	SM15T7V5A	Unidirect.	7.13	10	11.3	132	SMC
1500	6.4	500	SM15T7V5CA	Bidirect.	7.13	10	11.3	132	SMC
1500	8.55	10	SM15T10A	Unidirect.	9.5	1	14.5	103	SMC
1500	8.55	10	SM15T10CA	Bidirect.	9.5	1	14.5	103	SMC
1500	10.2	5	SM15T12A	Unidirect.	11.4	1	16.7	90	SMC
1500	10.2	5	SM15T12CA	Bidirect.	11.4	1	16.7	90	SMC
1500	12.8	5	SM15T15A	Unidirect.	14.3	1	21.2	71	SMC
1500	12.8	5	SM15T15CA	Bidirect.	14.3	1	21.2	71	SMC
1500	15.3	5	SM15T18A	Unidirect.	17.1	1	25.2	59.5	SMC
1500	15.3	5	SM15T18CA	Bidirect.	17.1	1	25.2	59.5	SMC
1500	18.8	5	SM15T22A	Unidirect.	20.9	1	30.6	49	SMC
1500	18.8	5	SM15T22CA	Bidirect.	20.9	1	30.6	49	SMC
1500	20.5	5	SM15T24A	Unidirect.	22.8	1	33.2	45	SMC
1500	20.5	5	SM15T24CA	Bidirect.	22.8	1	33.2	45	SMC
1500	23.1	5	SM15T27A	Unidirect.	25.7	1	37.5	40	SMC
1500	23.1	5	SM15T27CA	Bidirect.	25.7	1	37.5	40	SMC
1500	25.6	5	SM15T30A	Unidirect.	28.5	1	41.5	36	SMC

PROTECTION CIRCUITS

Contd.

Power	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
1500	25.6	5	SM15T30CA	Bidirect.	28.5	1	41.5	36	SMC
1500	28.2	5	SM15T33A	Unidirect.	31.4	1	45.7	33	SMC
1500	28.2	5	SM15T33CA	Bidirect.	31.4	1	45.7	33	SMC
1500	30.8	5	SM15T36A	Unidirect.	34.2	1	49.9	30	SMC
1500	30.8	5	SM15T36CA	Bidirect.	34.2	1	49.9	30	SMC
1500	33.3	5	SM15T39A	Unidirect.	37.1	1	53.9	28	SMC
1500	33.3	5	SM15T39CA	Bidirect.	37.1	1	53.9	28	SMC
1500	58.1	5	SM15T68A	Unidirect.	64.6	1	92	16.3	SMC
1500	58.1	5	SM15T68CA	Bidirect.	64.6	1	92	16.3	SMC
1500	85.5	5	SM15T100A	Unidirect.	95	1	137	11	SMC
1500	85.5	5	SM15T100CA	Bidirect.	95	1	137	11	SMC
1500	128	5	SM15T150A	Unidirect.	143	1	207	7.2	SMC
1500	128	5	SM15T150CA	Bidirect.	143	1	207	7.2	SMC
1500	171	5	SM15T200A	Unidirect.	190	1	274	5.5	SMC
1500	171	5	SM15T200CA	Bidirect.	190	1	274	5.5	SMC
1500	188	5	SM15T220A	Unidirect.	209	1	328	4.6	SMC
1500	188	5	SM15T220CA	Bidirect.	209	1	328	4.6	SMC
1500	5	800	SMCJ5.0A-TR	Unidirect.	6.4	10	9.2	171	SMC
1500	5	800	SMCJ5.0CA-TR	Bidirect.	6.4	10	9.2	171	SMC
1500	6	800	SMCJ6.0A-TR	Unidirect.	6.7	10	10.3	152	SMC
1500	6	800	SMCJ6.0CA-TR	Bidirect.	6.7	10	10.3	152	SMC
1500	6.5	500	SMCJ6.5A-TR	Unidirect.	7.2	10	11.2	140	SMC
1500	6.5	500	SMCJ6.5CA-TR	Bidirect.	7.2	10	11.2	140	SMC
1500	10	5	SMCJ10A-TR	Unidirect.	11.1	1	17	92	SMC
1500	10	5	SMCJ10CA-TR	Bidirect.	11.1	1	17	92	SMC
1500	12	5	SMCJ12A-TR	Unidirect.	13.3	1	19.9	79	SMC
1500	12	5	SMCJ12CA-TR	Bidirect.	13.3	1	19.9	79	SMC
1500	13	1	SMCJ13A-TR	Unidirect.	14.4	1	21.5	73	SMC
1500	13	1	SMCJ13CA-TR	Bidirect.	14.4	1	21.5	73	SMC
1500	15	1	SMCJ15A-TR	Unidirect.	16.7	1	24.4	64	SMC
1500	15	1	SMCJ15CA-TR	Bidirect.	16.7	1	24.4	64	SMC
1500	18	1	SMCJ18A-TR	Unidirect.	20	1	29.2	53	SMC
1500	18	1	SMCJ18CA-TR	Bidirect.	20	1	29.2	53	SMC
1500	22	1	SMCJ22A-TR	Unidirect.	24.4	1	35.5	44	SMC
1500	22	1	SMCJ22CA-TR	Bidirect.	24.4	1	35.5	44	SMC
1500	24	1	SMCJ24A-TR	Unidirect.	26.7	1	38.9	40	SMC
1500	24	1	SMCJ24CA-TR	Bidirect.	26.7	1	38.9	40	SMC
1500	26	1	SMCJ26A-TR	Unidirect.	28.9	1	42.1	37	SMC
1500	26	1	SMCJ26CA-TR	Bidirect.	28.9	1	42.1	37	SMC
1500	28	1	SMCJ28A-TR	Unidirect.	31.1	1	45.4	34	SMC
1500	28	1	SMCJ28CA-TR	Bidirect.	31.1	1	45.4	34	SMC
1500	30	1	SMCJ30A-TR	Unidirect.	33.3	1	48.4	32	SMC
1500	30	1	SMCJ30CA-TR	Bidirect.	33.3	1	48.4	32	SMC
1500	33	1	SMCJ33A-TR	Unidirect.	36.7	1	53.3	29	SMC
1500	33	1	SMCJ33CA-TR	Bidirect.	36.7	1	53.3	29	SMC
1500	40	1	SMCJ40A-TR	Unidirect.	44.4	1	64.5	24	SMC
1500	40	1	SMCJ40CA-TR	Bidirect.	44.4	1	64.5	24	SMC
1500	48	1	SMCJ48A-TR	Unidirect.	53.3	1	77.4	20	SMC
1500	48	1	SMCJ48CA-TR	Bidirect.	53.3	1	77.4	20	SMC
1500	58	1	SMCJ58A-TR	Unidirect.	64.4	1	93.6	16	SMC
1500	58	1	SMCJ58CA-TR	Bidirect.	64.4	1	93.6	16	SMC
1500	70	1	SMCJ70A-TR	Unidirect.	77.8	1	113	13.9	SMC
1500	70	1	SMCJ70CA-TR	Bidirect.	77.8	1	113	13.9	SMC
1500	85	1	SMCJ85A-TR	Unidirect.	94.4	1	137	11.5	SMC
1500	85	1	SMCJ85CA-TR	Bidirect.	94.4	1	137	11.5	SMC
1500	130	1	SMCJ130A-TR	Unidirect.	144	1	209	7.5	SMC
1500	130	1	SMCJ130CA-TR	Bidirect.	144	1	209	7.5	SMC
1500	170	1	SMCJ170A-TR	Unidirect.	189	1	275	5.7	SMC

PROTECTION CIRCUITS

Contd.

Power	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		Package
1500	170	1	SMCJ170CA-TR	Bidirect.	189	1	275	5.7	SMC
1500	188	1	SMCJ188A-TR	Unidirect.	209	1	328	4.6	SMC
1500	188	1	SMCJ188CA-TR	Bidirect.	209	1	328	4.6	SMC

TRANSIENT VOLTAGE SUPPRESSORS: 5000W TRANSILS - AXIAL

Power	V_{RM} @ I_{RM} max (V) (μA)		Part Number	Description	V_{BR} min @ I_R (V) (mA)		V_{CL} max @ I_{PP} (V) (A)		I_{FSM} (A)	Package
5000	10	5	BZW50-10	Unidirect.	11.1	1	18.8	266	500	AG
5000	10	5	BZW50-10B	Bidirect.	11.1	1	18.8	266	500	AG
5000	15	5	BZW50-15	Unidirect.	16.6	1	26.9	186	500	AG
5000	15	5	BZW50-15B	Bidirect.	16.6	1	26.9	186	500	AG
5000	22	5	BZW50-22	Unidirect.	24.4	1	39.4	127	500	AG
5000	22	5	BZW50-22B	Bidirect.	24.4	1	39.4	127	500	AG
5000	27	5	BZW50-27	Unidirect.	30	1	48.3	103	500	AG
5000	27	5	BZW50-27B	Bidirect.	30	1	48.3	103	500	AG
5000	33	5	BZW50-33	Unidirect.	36.6	1	59	85	500	AG
5000	33	5	BZW50-33B	Bidirect.	36.6	1	59	85	500	AG
5000	39	5	BZW50-39	Unidirect.	43.3	1	69.4	72	500	AG
5000	39	5	BZW50-39B	Bidirect.	43.3	1	69.4	72	500	AG
5000	56	5	BZW50-56	Unidirect.	62.2	1	99.6	50	500	AG
5000	56	5	BZW50-56B	Bidirect.	62.2	1	99.6	50	500	AG
5000	68	5	BZW50-68	Unidirect.	75.6	1	121	41	500	AG
5000	68	5	BZW50-68B	Bidirect.	75.6	1	121	41	500	AG
5000	82	5	BZW50-82	Unidirect.	91	1	145	34	500	AG
5000	82	5	BZW50-82B	Bidirect.	91	1	145	34	500	AG
5000	100	5	BZW50-100	Unidirect.	111	1	179	28	500	AG
5000	100	5	BZW50-100B	Bidirect.	111	1	179	28	500	AG
5000	150	5	BZW50-150	Unidirect.	166	1	269	19	500	AG
5000	150	5	BZW50-150B	Bidirect.	166	1	269	19	500	AG
5000	180	5	BZW50-180	Unidirect.	200	1	322	16	500	AG
5000	180	5	BZW50-180B	Bidirect.	200	1	322	16	500	AG

TRANSIENT VOLTAGE SUPPRESSOR FOR AUTOMOTIVE: TRANSIL - AXIAL

Part Number	I_{RM} max $T_c = 25^\circ\text{C}$ (μA)	I_{RM} max $T_c = 85^\circ\text{C}$ (μA)	V_{RM} (V)	V_{BR} min $T_c = 25^\circ\text{C}$ (V)	V_{BR} max $T_c = 25^\circ\text{C}$ (V)	I_R $T_c = 25^\circ\text{C}$ (mA)	V_{CL} max $T_c = 25^\circ\text{C}$ (V)	I_{PP} $T_c = 25^\circ\text{C}$ (A)	C typ (nF)	Package
LDP24A	50	300	24	25	32	1	38	30	8	AG

SURGE SUPPRESSORS FOR TELECOM INTRABUILDING AND TERMINALS: TRISILS - SMA

I_{PP} (A)	V_{RM} @ I_{RM} (max) (V) (μA)		Part Number	V_R @ I_R (V) (μA)		V_{BO} max @ I_{BO} (V) (mA)		I_H min (mA)	C typ @ $V_R = 1V$ (pF)	Package
30	56	2	SMP30-62	62	50	82	800	150	50	SMA
30	61	2	SMP30-68	68	50	90	800	150	50	SMA
30	90	2	SMP30-100	100	50	133	800	150	40	SMA
30	108	2	SMP30-120	120	50	160	800	150	40	SMA
30	117	2	SMP30-130	130	50	173	800	150	35	SMA
30	162	2	SMP30-180	180	50	240	800	150	35	SMA
30	180	2	SMP30-200	200	50	267	800	150	30	SMA
30	198	2	SMP30-220	220	50	293	800	150	30	SMA
30	216	2	SMP30-240	240	50	320	800	150	30	SMA
30	243	2	SMP30-270	270	50	360	800	150	30	SMA

PROTECTION CIRCUITS

SURGE SUPPRESSORS FOR TELECOM TERMINALS: TRISILS - AXIAL

I_{pp} (A)	$V_{RM} @ I_{RM}$ (max) (V) (μA)		Part Number	$V_R @ I_R$ (V) (μA)		$V_{BO} \text{ max } @ I_{BO}$ (V) (mA)		I_H min (mA)	C typ @ $V_R=1V$ (pF)	Package
50	56	2	TPA62	62	50	82	800	150	150	F126
50	90	2	TPA100	100	50	133	800	150	100	F126
50	108	2	TPA120	120	50	160	800	150	100	F126
50	117	2	TPA130	130	50	173	800	150	100	F126
50	162	2	TPA180	180	50	240	800	150	100	F126
50	180	2	TPA200	200	50	267	800	150	100	F126
50	198	2	TPA220	220	50	293	800	150	100	F126
50	216	2	TPA240	240	50	320	800	150	100	F126
50	243	2	TPA270	270	50	360	800	150	100	F126

SURGE SUPPRESSORS FOR TELECOM TERMINALS: TRISILS - SMB

I_{pp} (A)	$V_{RM} @ I_{RM}$ (max) (V) (μA)		Part Number	$V_R @ I_R$ (V) (μA)		$V_{BO} \text{ max } @ I_{BO}$ (V) (mA)		I_H min (mA)	C typ @ $V_R=1V$ (pF)	Package
50	56	2	SMTPA62	62	50	82	800	150	150	SMB
50	61	2	SMTPA68	68	50	90	800	150	150	SMB
50	90	2	SMTPA100	100	50	133	800	150	100	SMB
50	108	2	SMTPA120	120	50	160	800	150	100	SMB
50	117	2	SMTPA130	130	50	173	800	150	100	SMB
50	162	2	SMTPA180	180	50	240	800	150	100	SMB
50	180	2	SMTPA200	200	50	267	800	150	100	SMB
50	198	2	SMTPA220	220	50	293	800	150	100	SMB
50	216	2	SMTPA240	240	50	320	800	150	100	SMB
50	243	2	SMTPA270	270	50	360	800	150	100	SMB

SURGE SUPPRESSORS FOR TELECOM TERMINALS: TRISILS - AXIAL

I_{pp} (A)	$V_{RM} @ I_{RM}$ (max) (V) (μA)		Part Number	$V_R @ I_R$ (V) (μA)		$V_{BO} \text{ max } @ I_{BO}$ (V) (mA)		I_H min (mA)	C typ @ $V_R=1V$ (pF)	Package
30	56	2	TP30-62	62	50	82	800	150	50	F126
30	90	2	TP30-100	100	50	133	800	150	40	F126
30	108	2	TP30-120	120	50	160	800	150	40	F126
30	117	2	TP30-130	130	50	173	800	150	35	F126
30	162	2	TP30-180	180	50	240	800	150	35	F126
30	180	2	TP30-200	200	50	267	800	150	30	F126
30	198	2	TP30-220	220	50	293	800	150	30	F126
30	216	2	TP30-240	240	50	320	800	150	30	F126
30	243	2	TP30-270	270	50	293	800	150	30	F126

SURGE SUPPRESSORS FOR MODEMS AND LINE CARDS: TRISILS - SMB

I_{pp} (A)	$V_{RM} @ I_{RM}$ (max) (V) (μA)		Part Number	$V_R @ I_R$ (V) (μA)		$V_{BO} \text{ max } @ I_{BO}$ (V) (mA)		I_H min (mA)	C typ @ $V_R=1V$ (pF)	Package
100	6	2	SMP100LC-8	8	50	25	800	50	100	SMB
100	32	2	SMP100LC-35	35	50	55	800	150	65	SMB
100	55	2	SMP100LC-65	65	50	85	800	150	95	SMB
100	81	2	SMP100LC-90	90	50	120	800	150	85	SMB
100	108	2	SMP100LC-120	120	50	160	800	150	80	SMB
100	120	2	SMP100LC-140	140	50	190	800	150	75	SMB
100	144	2	SMP100LC-160	160	50	220	800	150	70	SMB
100	170	2	SMP100LC-200	200	50	275	800	150	70	SMB
100	200	2	SMP100LC-230	230	50	320	800	150	70	SMB
100	230	2	SMP100LC-270	270	50	370	800	150	65	SMB

DATA PROTECTION: ESD SUPPRESSION UNIDIRECTIONAL

Array Function	Part Number	I_{RM} max @ V_{RM} (μ A) (V)		V_{BR} min @ I_R (V) (mA)		R_d typ. (m Ω)	C typ @ 0 V bias (pF)	Package
2 Unidirectional Transils	ESDA5V3L	2	3	5.3	1	280	220	SOT-23
4 Unidirectional Transils	ESDA5V3SC5	2	3	5.3	1	230	280	SOT-23-5L
4 Unidirectional Transils	ESDA5V3SC6	2	3	5.3	1	230	280	SOT-23-6L
18 Unidirectional Transils	ESDA6V1S3	2	5	6.1	1	500	120	SO20
2 Unidirectional Transils	ESDA6V1L	20	5.25	6.1	1	350	140	SOT-23
4 Unidirectional Transils	ESDA6V1W5	1	3	6.1	1	350	90	SOT323-5L
4 Unidirectional Transils	ESDA6V1SC5	20	5.25	6.1	1	350	190	SOT-23-5L
4 Unidirectional Transils	ESDA6V1SC6	20	5.25	6.1	1	350	190	SOT-23-6L
5 Unidirectional Transils	ESDA6V1-5W6	1	3	6.1	1	610	50	SOT323-6L
6 Unidirectional Transils	ESDA6V1U1	2	5	6.1	1	500	200	SO-8
9 Unidirectional Transils	ESDA6V1FU6	20	5.25	6.1	1	200	260	SSOP20
18 Unidirectional Transils	ESDA6V2S6	2	5.25	6.2	1	500	100	SSOP20
2 Unidirectional Transils	ESDA14V2L	5	12	14.2	1	650	90	SOT-23
4 Unidirectional Transils	ESDA14V2SC5	5	12	14.2	1	650	100	SOT-23-5L
4 Unidirectional Transils	ESDA14V2SC6	5	12	14.2	1	650	200	SOT-23-6L
2 Unidirectional Transils	ESDA25L	1	24	25	1	1000	50	SOT23-3L
2 Unidirectional Transils	ESDA25W	1	24	25	1	1100	65	SOT323-3L
4 Unidirectional Transils	ESDA25W5	1	24	25	1	1900	30	SOT323-3L
4 Unidirectional Transils	ESDA25SC6	1	24	25	1	1000	60	SOT23-5L

DATA PROTECTION: ESD SUPPRESSORS BIDIRECTIONAL

Array Function	Part Number	I_{RM} max @ V_{RM} (μ A) (V)		V_{BR} min @ I_R (V) (mA)		R_d typ. (m Ω)	C typ @ 0 V bias (pF)	Package
4 Bidirectional Transils	ESDA6V1BC6	1	5	6.1	1	1350	20	SOT23-6L
6 Bidirectional Transils	ESDA6V1B1	2	5	6.1	1	700	50	SO-8
18 Bidirectional Transils	ESDA25DB3	2	24	25	1	500	50	SO20
6 Bidirectional Transils	ESDA25B1	2	24	25	1	1500	15	SO-8

DATA PROTECTION: USB PORT PROTECTION

Array Function	Part Number	I_{RM} max @ V_{RM} (μ A) (V)		V_{BR} min @ I_R (V) (mA)		C typ (pF)	Package
USB port protection	USB6B1	10	5.25	6	1	15	SO-8

MODEM INTERFACE PROTECTION FOR V90, T1 / E1, ISDN

Array Function	Part Number	I_{RM} max @ V_{RM} (μ A) (V)		C typ (pF)		Package
ESD Suppressor 8 diodes	DALC208SC6	1	5	17		SOT23-6L
ESD Suppressor 12 diodes	DALC112S1	2	15	18		SO-8

Array Function	Part Number	V_{RRM} (V)	V_{FP} @ I_{PP} (8/20 μ s) (V) (A)		I_R max @ 15V (μ A)	V_F max @ I_F (V) (mA)		Package
8 Diodes	DA108S1	18	9	12	2	1.2	50	SO-8
12 Diodes	DA112S1	18	12	12	2	1.2	50	SO-8

PROTECTION CIRCUITS

FIXED VOLTAGE PROTECTION FOR TELECOM RELAY

I _{pp} max (A)	Part Number	I _{RM} max @ V _{RM} (μA) (V)		V _R min @ I _R (V) (μA)		V _{BO} max @ I _{BO} max (V) (mA)		I _H min (mA)	Package
30	THBT20011D	5	180	200	50	290	400	150	SO-8
30	THBT27011D	5	240	270	50	380	400	150	SO-8
35	THBT200S1	10	180	200	1000	290	800	150	SIP-3
75	THBT200S	10	180	200	1000	290	800	150	SIP-3
100	TLP140G	5	120	140	50	200	500	150	D ² PAK
100	TLP140G-1	5	120	140	50	200	500	150	I ² PAK
100	TLP200G	5	180	200	50	290	500	150	D ² PAK
100	TLP200G-1	5	180	200	50	290	500	150	I ² PAK
100	TLP270G	5	230	270	50	400	500	150	D ² PAK
100	TLP270G-1	5	230	270	50	400	500	150	I ² PAK

FIXED VOLTAGE PROTECTION FOR TELECOM SOLID STATE RELAY

I _{pp} max (A)	Part Number	I _R max @ V _R (μA)	V _{BO} max (50Hz) (V) (V)		I _H min (mA)	Package
2 x 15	SSRP130B1	10	+ 130 - 185	+ 200 - 280	150	SO-8

FIXED VOLTAGE PROTECTION FOR SLIC

I _{pp} max (A)	Part Number	I _{RM} max @ V _{RM} (μA) (V)		V _R min @ I _R (V) (μA)		V _{BO} max @ I _{BO} max (V) (mA)		I _H min (mA)	Package
35	THDT58S1	10	56	58	1	80	800	150	SIP-3
40	THDT6511D	100	63	65	1	85	-	150	SO-8
75	THDT58S	10	56	58	1	80	800	150	SIP-3

PROTECTION ICs: PROGRAMMABLE VOLTAGE SLIC PROTECTION

I _{pp} max (A)	Part Number	Max oper. voltage (V)		I _{RM} max @ V _{RM} (μA) (V)		V _{DGL} max (V)	I _H min (mA)	Package
10	LCDP1511D	80		5	75	7	150	SO-8
30	LCP02-150B1	-110 to +95		5	-105 / +90	8	150	SO-8 Wide
30	LCP1521	150		5	150	7	150	SO-8
35	LCP150S1D	80		5	75	10	150	SIP-4
50	LCP150S	80		5	85	15	150	SIP-4
100	L3121B	80		5	60	-	150	SIP-4
100	LCP3121	80		5	60	-	100	SO-8

PROTECTION ICs: PROGRAMMABLE CURRENT AND VOLTAGE LINE CARD PROTECTION

I _{pp} max (A)	Part Number	I _{LGL} max @ V _{LG} (μA) (V)		V _{ref} min @ I _{LG} (V) (mA)		V _{SWON} max (V)	I _{SWOFF} min (mA)	Package
30	CLP30-200B1	10	200	-	-	290	150	SO-8
100	CLP200M	10	200	215	1	290	150	PowerSO-10
100	CLP270M	10	240	270	1	380	150	PowerSO-10

ISDN S AND U INTERFACE PROTECTION

Ipp max (A)	Part Number	I _{RM} max @ V _{RM} (μA) (V)		V _{BR} min @ I _R (V) (mA)		V _{BO} max @ I _{BO} max (V) (mA)		I _H min (mA)	Package
30	TPI8011N	10	70	80	1	120	800	150	SO-8
30	TPI12011N	10	105	120	1	180	800	150	SO-8

T1/E1 INTERFACE PROTECTION (WET LOOP)

Ipp max (A)	Part Number	I _{RM} max @ V _{RM} (μA) (V)		V _{BR} min @ I _R (V) (mA)		V _{BO} max @ I _{BO} max (V) (mA)		I _H min (mA)	Package
30	TPN3021	4	28	-	-	30	100	30	SO-8

BRIDGE AND PROTECTION ALL-IN-ONE FOR TELECOM TERMINALS

Ipp max (A)	Part Number	I _{RM} max @ V _{RM} (μA) (V)		V _{BO} max @ I _{BO} max (V) (mA)		I _H min (mA)	Package
30	TSI62B1	5	62	90	400	150	SO-8
30	TSI180B1	5	180	250	400	150	SO-8
30	TSI200B1	5	200	290	400	150	SO-8
30	TSI265B1	5	265	380	800	150	SO-8

PROGRAMMABLE VOLTAGE PROTECTION FOR TELECOM TERMINAL

Ipp max (A)	Part Number	I _{RM} max @ V _{RM} (μA) (V)		V _{BR} min @ I _R (V) (mA)		V _{BO} max @ I _{BO} max (V) (mA)		I _H min (mA)	Package
30	TPP25011	6	60	250	1	340	200	150	SO-8

TELECOM IPADs: MOBILE PHONE FILTERS

Part Number	Attenuation @ Frequency (dB) (GHz)		V _{BR} min @ I _R = 1mA (V)	I _R max @ V _{RM} = 3V (μA)	RI/O Typ (Ω)	Package
EMIF01-10005W5	-24	0.9	6	1	100	SOT-323-5L
EMIF01-10018W5	-24	0.9	6	1	100	SOT-323-5L
EMIF01-5250SC5	-20	0.9	6	1	104	SOT-23-5L
EMIF02-600FU7	-20	0.9	6	1	600	SSOP24
EMIF10-1K010F1	-30	0.9	6	1	27	Flip Chip CSP

COMPUTER IPADs: PORT TERMINATIONS - KEYBOARD, MOUSE, 1284, USB

Part Number	Attenuation @ Frequency (dB) (GHz)		V _{BR} min @ I _R = 1mA (V)	I _R max @ V _{RM} = 3V (μA)	RI/O Typ (Ω)	Package
KBMF01SC6	-30	0.3	6	10	39	SOT23-6L
ST1284-01A8	-25	0.25	6	10	33	QSOP28
ST1284-02A8	-25	0.25	6	10	33	QSOP28
USBDF01W5	-25	0.5	6	10	33	SOT323-5L
USBDF02W5	-25	0.5	6	10	15	SOT323-5L
USBUF01W6	-20	0.4	6	10	33	SOT323-6L

HIGH SIDE DRIVERS (MULTIPLE CHANNEL)

Part Number	V _{CC} (V)	V _{DSS} (V)	R _{DS(on)} (Ω)	I _{out} (A)	P _{tot} (W)	Package	Channels	Applications
VND05B	6 to 26	40	2 x 0.20	9	59	HEPTAWATT	2	Aut., Ind., Cons.
VND05BSP	6 to 26	40	2 x 0.20	9	59	PowerSO-10	2	Aut., Ind., Cons.
VND10B	6 to 26	40	2 x 0.10	14	75	HEPTAWATT	2	Aut., Ind., Cons.
VND10BSP	6 to 26	40	2 x 0.10	14	75	PowerSO-10	2	Aut., Ind., Cons.
VND600SP	5.5 to 36	41	2 x 0.03	25	90	PowerSO-10	2	Aut., Ind., Cons.
VND610*	5.5 to 36	41	2x0.01	45	110	SO-28	2	Aut., Ind., Cons.
VND810SP	5.5 to 36	41	2x0.16	3.5	54	PowerSO-10	2	Aut., Ind., Cons.
VND810*	5.5 to 36	41	2x0.16	3.5	8	SO-16	2	Aut., Ind., Cons.
VND810MSP	5.5 to 36	41	2x0.16	0.6	54	PowerSO-10	2	Aut., Ind., Cons.
VND830SP	5.5 to 36	41	2x0.06	6	74	PowerSO-10	2	Aut., Ind., Cons.
VND830*	5 to 36	41	2x0.16	6	int. limit.	SO-16	2	Aut., Ind., Cons.
VND830MSP	5.5 to 36	41	2 x 0.06	6	74	PowerSO-10	2	Aut., Ind., Cons.
VND920*	5.5 to 36	41	2 x 0.016	25	90	SO-28	2	Ind., Cons., Aut.
VN450	5.5 to 36	45	2 x 0.04 / 1 x 0.3	10/2.5	95	PowerSO-20	3	Aut., Ind., Cons.
VN330SP	10 to 36	45	4 x 0.20	0.7	int. limit.	PowerSO-10	4	Aut., Ind., Cons.
VN340SP	10 to 36	45	4 x 0.20	0.7	int. limit.	PowerSO-10	4	Aut., Ind., Cons.
VNQ600	5.5 to 36	41	4 x 0.03	25	6.25	SO-28	4	Aut., Ind., Cons.
VNQ660SP	5.5 to 36	41	4 x 0.05	6	89	PowerSO-10	4	Aut., Ind., Cons.
VNQ810	5.5 to 36	41	4 x 0.16	3.5	12.5	SO-28	4	Aut., Ind., Cons.
VNQ810M	5.5 to 36	41	4 x 0.16	0.7	12.5	SO-28	4	Aut., Ind., Cons.
VNQ830	5.5 to 36	41	4 x 0.06	6	12.5	SO-28	4	Aut., Ind., Cons.
VNQ830M	5.5 to 36	41	4 x 0.06	6	12.5	SO-28	4	Aut., Ind., Cons.
VNQ860*	5.5 to 36	41	4 x 0.27	0.35	16	SO-20	4	Ind., Cons., Aut.
VNQ860SP*	5.5 to 36	41	4 x 0.27	0.35	90	PowerSO-10	4	Ind., Cons., Aut.

* Devices in development

HIGH SIDE DRIVERS (SINGLE CHANNEL)

Part Number	V _{CC} (V)	V _{DSS} (V)	R _{DS(on)} (Ω)	I _{out} (A)	P _{tot} (W)	Package	Applications
VN02AN	7 to 36	60	0.35	7	31	PENTAWATT	Aut., Ind., Cons.
VN02ANSP	7 to 36	60	0.35	7	31	PowerSO-10	Aut., Ind., Cons.
VN02H	5 to 36	60	0.4	6	28	PENTAWATT	Aut., Ind., Cons.
VN02HSP	5 to 36	60	0.4	6	29	PowerSO-10	Aut., Ind., Cons.
VN02N	7 to 26	60	0.4	6	29	PENTAWATT	Aut., Ind., Cons.
VN02NPT	7 to 26	60	0.4	6	46	PPAK	Aut., Ind., Cons.
VN02NSP	7 to 26	60	0.4	6	58	PowerSO-10	Aut., Ind., Cons.
VN03	5.5 to 26	60	0.5	4	14	PENTAWATT	Aut., Ind., Cons.
VN03SP	5.5 to 26	60	0.5	4	14	PowerSO-10	Aut., Ind., Cons.
VN05H	5 to 36	60	0.18	12	52	PENTAWATT	Aut., Ind., Cons.
VN05HSP	5 to 36	60	0.18	12	52	PowerSO-10	Aut., Ind., Cons.
VN05N	7 to 26	60	0.18	13	56	PENTAWATT	Aut., Ind., Cons.
VN05NSP	7 to 26	60	0.18	13	56	PowerSO-10	Aut., Ind., Cons.
VN06	5.5 to 26	60	0.18	9	27	PENTAWATT	Aut., Ind., Cons.
VN06SP	5.5 to 26	60	0.18	9	27	PowerSO-10	Aut., Ind., Cons.
VN16B	6 to 26	40	0.06	20	82	PENTAWATT	Aut., Ind., Cons.
VN16BSP	6 to 26	40	0.06	20	82	PowerSO-10	Aut., Ind., Cons.
VN21	5.5 to 26	60	0.05	23	48	PENTAWATT	Aut., Ind., Cons.
VN21SP	5.5 to 26	60	0.05	23	48	PowerSO-10	Aut., Ind., Cons.
VN220	12 to 30	60	0.025	28	60	PENTAWATT	Aut., Ind., Cons.
VN30N	7 to 26	60	0.03	45	108	PENTAWATT	Aut., Ind., Cons.
VN30NSP	7 to 26	60	0.03	45	108	PowerSO-10	Aut., Ind., Cons.
VN31	5.5 to 26	60	0.03	31	54	PENTAWATT	Aut., Ind., Cons.
VN31SP	5.5 to 26	60	0.03	31	54	PowerSO-10	Aut., Ind., Cons.
VN460SP	5.5 to 36	45	0.02	25	112	PowerSO-10	Aut., Ind., Cons.

Part Number	V _{CC} (V)	V _{DSS} (V)	R _{DS(on)} (Ω)	I _{out} (A)	P _{tot} (W)	Package	Applications
VN540	10 to 36	45	0.05	2.8	int. limit.	PENTAWATT	Aut., Ind., Cons.
VN540SP	10 to 36	45	0.05	2.8	int. limit.	PowerSO-10	Aut., Ind., Cons.
VN610SP	5.5 to 36	45	0.01	45	125	PowerSO-10	Aut., Ind., Cons.
VN750	5.5 to 36	41	0.06	6	42	PENTAWATT	Aut., Ind., Cons.
VN750S	5.5 to 36	41	0.06	6	3.1	SO-8	Aut., Ind., Cons.
VN750SM	5.5 to 36	41	0.06	6	3.1	SO-8	Aut., Ind., Cons.
VN750-B5	5.5 to 36	41	0.06	6	42	P ² PAK	Aut., Ind., Cons.
VN820	5.5 to 36	41	0.04	9	62.5	PENTAWATT	Aut., Ind., Cons.
VN820-B5*	5.5 to 36	41	0.04	9	62.5	P ² PAK	Aut., Ind., Cons.
VN820SP	5.5 to 36	41	0.04	9	62.5	PowerSO-10	Aut., Ind., Cons.
VN820PT*	5.5 to 36	41	0.04	9	21	PPAK	Aut., Ind., Cons.
VN920	5.5 to 36	41	0.016	35	90	PENTAWATT	Aut., Ind., Cons.
VN920-B5	5.5 to 36	41	0.016	35	90	P ² PAK	Aut., Ind., Cons.
VN920SP	5.5 to 36	41	0.015	35	90	PowerSO-10	Aut., Ind., Cons.
VN800S	5.5 to 36	41	0.135	0.7	4.2	SO-8	Aut., Ind., Cons.
VN800PT	5.5 to 36	41	0.135	0.7	4.2	PPAK	Aut., Ind., Cons.

* Device in development

SPECIAL DEVICES

Part Number	V _{CC} (V)	V _{DSS} (V)	R _{DS(on)} (Ω)	I _{out} (A)	I _n (A)	Package	Description	Applications
VN380	6 to 24	60	0.11	15	-	HEPTAWATT	Smart Solenoid Driver	Aut. Ind. Cons.
VN380SP	6 to 24	60	0.11	15	-	PowerSO-10	Smart Solenoid Driver	Aut. Ind. Cons.
VN970	6 to 18	60	2x0.07	15	4.8	MULTIWATT-15	Smart Direction Indicator - 2 Channel	Automotive
VN980	6 to 18	60	2x110	10	3.1	MULTIWATT-15	Smart Direction	Automotive
			2x200	7.5	1.7			
VN1160T	6.18	40	0.08	12	-	TO-220	Direction Indicator Driver for Motorbike	Automotive
VN1160	6 to 18	40	0.08	12	-	DPAK	Direction Indicator Driver for Motorbike	Automotive
VN1160-1	6 to 18	40	0.08	12	-	IPAK	Direction Indicator Driver for Motorbike	Automotive
VND670SP	5.5 to 26	40	0.03	30	-	PowerSO-10	Dual H.S.D. with dual gate drivers	Aut. Ind. Cons.
VN770	6 to 26	40	0.24	9	-	SO-28	Complete H-Bridge (2 H.S.D. + 2 PowerMOS)	Aut. Ind. Cons.
VN770K	5.5 to 36	41	0.22	6	-	SO-28	Complete H-Bridge (2 H.S.D. + 2 OMNIFET)	Aut. Ind. Cons.
VN771	6 to 26	40	0.14	14	-	SO-28	Complete H-Bridge (2 H.S.D. + 2 PowerMOS)	Aut. Ind. Cons.
VN771K*	5.5 to 36	41	0.095	6	-	SO-28	Complete H-Bridge (2 H.S.D. + 2 OMNIFET)	Aut. Ind. Cons.
VN772K	5.5 to 36	41	0.120	6	-	SO-28	Complete H-Bridge (2 H.S.D. + 2 OMNIFET)	Aut. Ind. Cons.
VN770P	6 to 26	40	0.27	9	-	SO-28	Complete H-Bridge (2 H.S.D. + 2 OMNIFET)	Aut. Ind. Cons.
VN710SP*	5.5 to 16	41	0.020	35	-	PowerSO-10	Glow plug for diesel motors	Automotive
VN771P	6 to 26	40	0.135	14	-	SO-28	Complete H-Bridge (2 H.S.D. + 2 OMNIFET)	Aut. Ind. Cons.
VNC14NV04T	-	40 (OMNI) 60 (PMOS)	2x0.035 2x0.030	14 (OMNI) 16 (PMOS)	-	SO-28	Triple switch (2 OMNIFETS + 1 PowerMOS)	Aut. Ind. Cons.

* Device in development

HV LINEAR REGULATOR

Part Number	ΔV _{in/out} (V)	V(out) (V)	I _{out} (mA)	Package	Applications
VB408	400	1.25 to Vin-30	40	TO-220	Industrial, Consumer
VB408B	400	1.25 to Vin-30	40	D ² PAK	Industrial, Consumer
VB408FI	400	1.25 to Vin-30	40	ISOWATT220	Industrial, Consumer
VB408-1	400	1.25 to Vin-30	40	IPAK	Industrial, Consumer
VB4085	400	5	40	PENTAWATT	Industrial, Consumer
VB409	400	5V±5%	80	PENTAWATT	Industrial, Consumer
VB409SP	400	5V±5%	80	PowerSO-10	Industrial, Consumer

SWITCH MODE POWER SUPPLIES

Part Number	V _{DD} (V)	V _{DSS} (V)	R _{DS(on)} (Ω)	I _n (A)	P _{tot} (W)	Package	Applications
VIPer20	11 to 15	620	16	0.5	20	PENTAWATT H.V.	Computer. Consumer
VIPer20SP	11 to 15	620	16	0.5	20	PowerSO-10	Computer. Consumer
VIPer20DIP	11 to 15	620	16	0.5	20	DIP-8	Computer. Consumer
VIPer20A	11 to 15	700	18	0.5	20	PENTAWATT H.V.	Computer. Consumer
VIPer20ASP	11 to 15	700	18	0.5	20	PowerSO-10	Computer. Consumer
VIPer20ADIP	11 to 15	700	18	0.5	20	DIP-8	Computer. Consumer
VIPer20B	11 to 15	400	8.7	1.3	20	PENTAWATT H.V.	Computer. Consumer
VIPer20BSP	11 to 15	400	8.7	1.3	20	PowerSO-10	Computer. Consumer
VIPer50	11 to 15	620	5	1.5	50	PENTAWATT H.V.	Computer. Consumer
VIPer50SP	11 to 15	620	5	1.5	50	PowerSO-10	Computer. Consumer
VIPer50A	11 to 15	700	5.7	1.5	50	PENTAWATT H.V.	Computer. Consumer
VIPer50ASP	11 to 15	700	5.7	1.5	50	PowerSO-10	Computer. Consumer
VIPer50B	11 to 15	400	2.2	1.5	50	PENTAWATT H.V.	Computer. Consumer
VIPer50BSP	11 to 15	400	2.2	1.5	50	PowerSO-10	Computer. Consumer
VIPer100	11 to 15	620	2.5	3	100	PENTAWATT H.V.	Computer. Consumer
VIPer100SP	11 to 15	620	2.5	3	100	PowerSO-10	Computer. Consumer
VIPer100A	11 to 15	700	2.8	3	100	PENTAWATT H.V.	Computer. Consumer
VIPer100ASP	11 to 15	700	2.8	3	100	PowerSO-10	Computer. Consumer
VIPer100B	11 to 15	400	1.1	6	100	PENTAWATT H.V.	Computer. Consumer
VIPer100BSP	11 to 15	400	1.1	6	100	PowerSO-10	Computer. Consumer
VIPer12ADIP*	9 to 40	730	30	0.36	-	DIP-8	Battery Charger
VIPer12AS*	9 to 40	730	30	0.36	-	SO-8	Battery Charger
VIPer30All*	11 to 16	650	12	1	30	PENTAWATT H.V.	Computer. Consumer
VIPer30AllS*	11 to 16	650	12	1	30	SO-8	Computer. Consumer
VIPer30AllDIP*	11 to 16	650	12	1	30	DIP-8	Computer. Consumer
VIPer50All*	11 to 16	650	5.7	1.5	50	PENTAWATT H.V.	Computer. Consumer
VIPer50AllDIP*	11 to 16	650	5.7	1.5	50	DIP-8	Computer. Consumer
VIPer50AllSP*	11 to 16	650	5.7	1.5	50	PowerSO-10	Computer. Consumer

* Device in development

ELECTRONIC IGNITION

Part Number	V _D (V)	V _{CL} max (V)	I _{CL} max (A)	I _D max (mA)	Package	Application
VB025SP	-0.3 to 7	420	10	100	PowerSO-10	Automotive
VB027	4.5 to 5.5	400	9	130	PENTAWATT H.V.	Automotive
VB027SP	4.5 to 5.5	400	9	130	PowerSO-10	Automotive
VB027BSP	4.5 to 5.5	420	10.5	160	PowerSO-10	Automotive
VB029	4.5 to 5.5	420	12	230	PENTAWATT H.V.	Automotive
VB029SP	4.5 to 5.5	420	12	230	PowerSO-10	Automotive
VB921ZVSP	-	440	7.5	-	PowerSO-10	Automotive
VB921ZVFI	-	440	7.5	-	ISOWATT220	Automotive
VB927	-	490	9.5	-	TO-247	Automotive
VB923	-	500	7.2	-	TO-247	Automotive
VB922	-	500	8.1	-	TO-247	Automotive
VB027ASP	4.5 to 5.5	400	10	130	PowerSO-10	Automotive
VB925B*	-	390	11	-	D ² PAK	Automotive
VB925FI*	-	390	11	-	ISOWATT220	Automotive
VB125ASP	-0.2 to 40	400	11.1	200	PowerSO-10	Automotive
VB130SP*	-0.3 to 41	500	11 or 15.8	220	PowerSO-10	Automotive

* Device in development

OMNIFETs - AUTOPROTECTED Power MOSFETs

Part Number	V _{CLAMP} (V)	R _{DS(on)} (Ω)	Package	Applications
VNB35NV04	40	10	D ² PAK	Automotive, Industrial, Consumer
VNV35NV04	40	10	PowerSO-10	Automotive, Industrial, Consumer
VNP35NV04	40	10	TO-220	Automotive, Industrial, Consumer
VNW100N04	36	12	TO-247	Automotive, Industrial, Consumer
VNW50N04	36	12	TO-247	Automotive, Industrial, Consumer
VNP49N04FI	34	20	ISOWATT220	Automotive, Industrial, Consumer
VNB49N04	34	20	D ² PAK	Automotive, Industrial, Consumer
VNV49N04	34	20	PowerSO-10	Automotive, Industrial, Consumer
VNP49N04	34	20	TO-220	Automotive, Industrial, Consumer
VNV35N07	60	28	PowerSO-10	Automotive, Industrial, Consumer
VNP35N07FI	60	28	ISOWATT220	Automotive, Industrial, Consumer
VNB35N07	60	28	D ² PAK	Automotive, Industrial, Consumer
VNP35N07	60	28	TO-220	Automotive, Industrial, Consumer
VNS14NV04	40	35	SO-8	Automotive, Industrial, Consumer
VNB28N04	34	35	D ² PAK	Automotive, Industrial, Consumer
VNP28N04	34	35	TO-220	Automotive, Industrial, Consumer
VNP28N04FI	34	35	ISOWATT220	Automotive, Industrial, Consumer
VNP14NV04	40	35	TO-220	Automotive, Industrial, Consumer
VNB14NV04	40	35	D ² PAK	Automotive, Industrial, Consumer
VNV28N04	34	35	PowerSO-10	Automotive, Industrial, Consumer
VND14NV04	40	35	DPAK	Automotive, Industrial, Consumer
VND14NV04-1	40	35	IPAK	Automotive, Industrial, Consumer
VNB20N07	60	50	D ² PAK	Automotive, Industrial, Consumer
VNP20N07FI	60	50	ISOWATT220	Automotive, Industrial, Consumer
VNV20N07	60	50	PowerSO-10	Automotive, Industrial, Consumer
VNP20N07	60	50	TO-220	Automotive, Industrial, Consumer
VNS7NV04	40	60	SO-8	Automotive, Industrial, Consumer
VNN7NV04	40	60	SOT-223	Automotive, Industrial, Consumer
VND7NV04	40	60	DPAK	Automotive, Industrial, Consumer
VND7NV04-1	40	60	IPAK	Automotive, Industrial, Consumer
VNV14N04	36	70	PowerSO-10	Automotive, Industrial, Consumer
VNB14N04	36	70	D ² PAK	Automotive, Industrial, Consumer
VNP14N04FI	36	70	ISOWATT220	Automotive, Industrial, Consumer
VNP14N04	36	70	TO-220	Automotive, Industrial, Consumer
VNK14N04FM	36	70	SOT-82FM	Automotive, Industrial, Consumer
VNV10N07	60	100	PowerSO-10	Automotive, Industrial, Consumer
VNK10N07FM	60	100	SOT-82FM	Automotive, Industrial, Consumer
VNP10N07FI	60	100	ISOWATT220	Automotive, Industrial, Consumer
VNP10N07	60	100	TO-220	Automotive, Industrial, Consumer
VNB10N07	60	100	D ² PAK	Automotive, Industrial, Consumer
VNS3NV04	40	120	SO-8	Automotive, Industrial, Consumer
VNN3NV04	40	120	SOT-223	Automotive, Industrial, Consumer
VND3NV04	40	120	DPAK	Automotive, Industrial, Consumer
VND3NV04-1	40	120	IPAK	Automotive, Industrial, Consumer
VNK7N04FM	32	140	SOT-82FM	Automotive, Industrial, Consumer
VND7N04	32	140	DPAK	Automotive, Industrial, Consumer
VND7N04-1	32	140	IPAK	Automotive, Industrial, Consumer
VNP7N04FI	32	140	ISOWATT220	Automotive, Industrial, Consumer
VNP7N04	32	140	TO-220	Automotive, Industrial, Consumer
VNP5N07	60	200	TO-220	Automotive, Industrial, Consumer
VND5N07-1	60	200	IPAK	Automotive, Industrial, Consumer
VND5N07	60	200	DPAK	Automotive, Industrial, Consumer
VNK5N07FM	60	200	SOT-82FM	Automotive, Industrial, Consumer
VNP5N07FI	60	200	ISOWATT220	Automotive, Industrial, Consumer
VNN1NV04	40	250	SOT-223	Automotive, Industrial, Consumer
VNS1NV04	40	250	SO-8	Automotive, Industrial, Consumer

All Devices has a thermal shut down protection

Part Number	V _{CLAMP} (V)	R _{DS(on)} (Ω)	Package	Applications
VNP10N06FI	50	300	ISOWATT220	Automotive, Industrial, Consumer
VNK10N06FM	50	300	SOT-82FM	Automotive, Industrial, Consumer
VND10N06-1	50	300	IPAK	Automotive, Industrial, Consumer
VND10N06	50	300	DPAK	Automotive, Industrial, Consumer
VNP10N06	50	300	TO-220	Automotive, Industrial, Consumer
VNS3NV04D	40	2x120	SO-8	Automotive, Industrial, Consumer
VNS1NV04D	40	2x250	SO-8	Automotive, Industrial, Consumer
VNA7NVO4D*	40	2 x 60	SO-16	Automotive, Industrial, Consumer

All Devices has a thermal shut down protection

* Devices in development

Making The Difference In Discretes

STMicroelectronics has been strongly committed to the market for Discrete Products throughout its history and this commitment continues unabated, both in terms of the extensive manufacturing capacity and the continuous investment in R&D, new product development and packaging technology.

ST offers a very large range of standard discrete devices, where its renowned manufacturing efficiency and quality management allow the Company to offer high performance at competitive costs. The standard portfolio is complemented by a rapidly growing number of application-specific standard products that leverage ST's wide range of innovative technologies, including the revolutionary PowerMESH and STripFET technologies, the LDMOS process for radio applications, several varieties of VIPower technologies and the Application Specific Discretes (ASD™) technology.

Power Bipolar

The power bipolar range includes cost-competitive commodity transistors for every kind of application and a range of specialized devices that have optimized for particular applications such as electronic light ballasts or horizontal deflection in TVs and monitors.

Power MOSFETs

ST revolutionised the Power MOSFET with its proprietary strip layout technique and its derivatives. The power MOSFET range includes the MDmesh™ and PowerMESH™ products for high voltage applications and the STripFET™ families of low voltage MOSFETs and includes devices with built-in protection against voltage spikes.

IGBTs

IGBTs are another area where ST's proprietary PowerMESH technology has brought substantial benefits, with lower $V_{ce(sat)}$, higher current capability, faster switching and better latch-up immunity compared to previous IGBT generations. The product range includes low drop and fast-switching families, as well as devices with built-in freewheeling diode.

VIPower®

VIPower (Vertical Intelligent Power) is a generic term for a number of proprietary smart power technologies in which current flows vertically in the power stage, resulting in power stage performance that is equal or even better than that of their discrete counterparts. The innovative products that have been built with these technologies include the VIPer™ range of switch mode power supplies, smart fully-protected H-bridges and the OMNIFET™ range of protected MOSFETs.

Radio Frequency

ST offers a wide range of RF transistors addressing VHF, UHF, radar, avionic, basestation and mobile radio applications, using bipolar and MOSFET technologies. ST's proprietary LDMOS technology offers the high gain and linearity required for portable, mobile and base-station applications, including GSM, CDMA (1GHz) and TETRA.

Thyristors

ST has a strong tradition of leadership in thyristor technology, which has been reinforced by its proprietary ASD technology. The large range of standard products is complemented by a range of dedicated devices optimised for applications such as ignition systems and AC switching.

Rectifiers

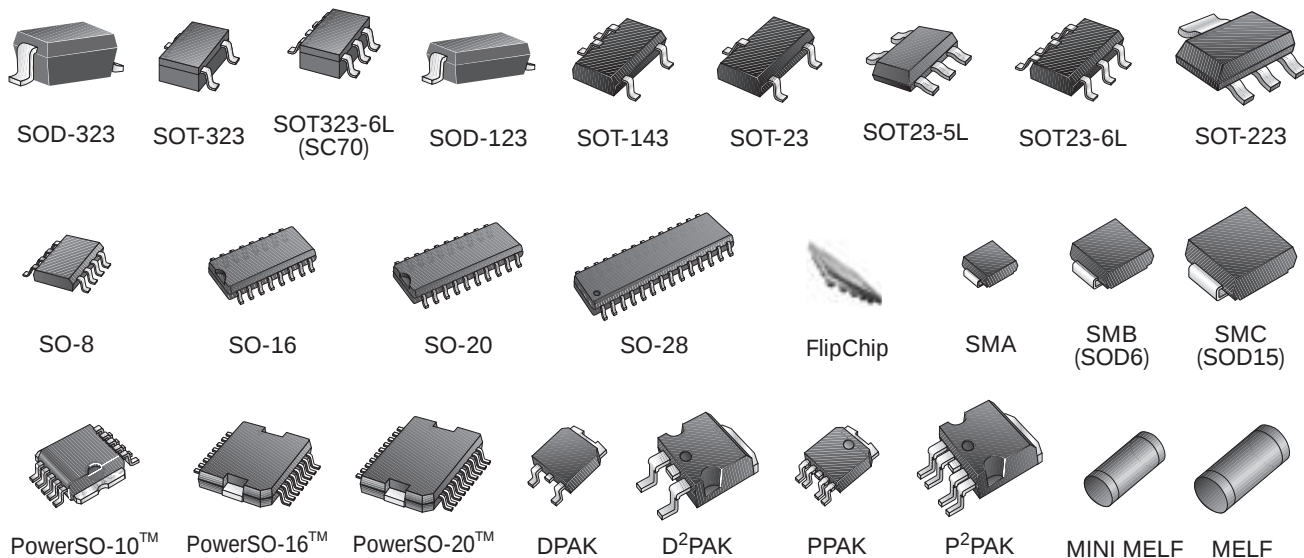
As world leader in rectifiers, ST specializes in Schottky and ultra-fast bipolar diodes, with a comprehensive portfolio covering voltage ranges from 15V to 1500V. Recent 600V tandem diodes show performance comparable to GaAs.

Protection

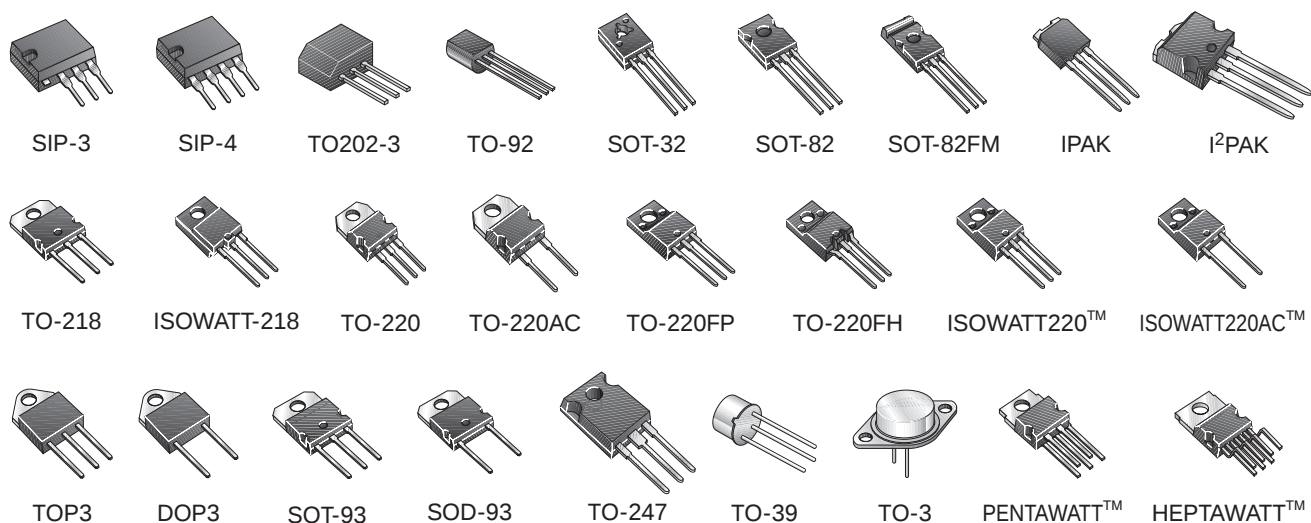
In addition to a wide range of standard suppressors, ST has developed many innovative application specific protection devices using its ASD™ and IPAD™ technology, including EMI filters for cellular phones, xDSL networks, USB ports and hard disk drives.

INNOVATIVE POWER PACKAGES

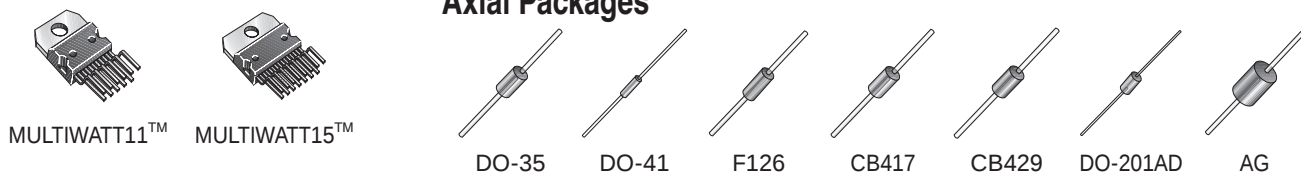
SMD - Surface Mounting Technology



Through-hole



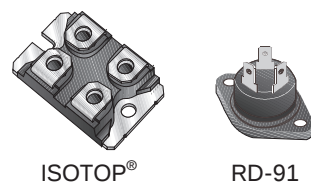
Axial Packages



Clip Mounting



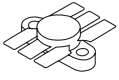
Screw Mounting



RF PACKAGE RANGE

Gold Ceramic

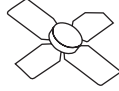
Epoxy Sealed



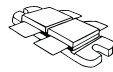
M111
(.500 DIA)



M122
(.280 DIA)



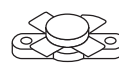
M123
(.280 DIA)



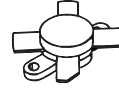
M165
(2x.437x.450)



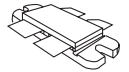
M173
(.438x.450)



M174
(.500 DIA)

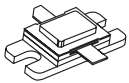


M177
(.500 DIA)



M244
(.400x.860)

Hermetic



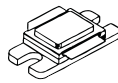
M112
(.400x.500)



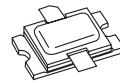
M138
(.400 SQ.)



M205
(.400x.500)



M207
(.400x.600)



S138
(.400x.500)

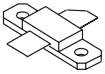


SO16
(.230 DIA)

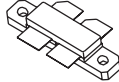


SO27
(.230 DIA)

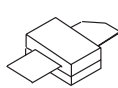
LDMOS BeO Free



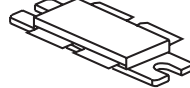
M243



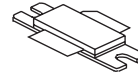
M246



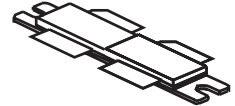
M250



M252

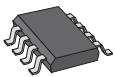


M256

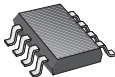


M257

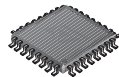
SMD Plastic



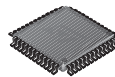
SOP8



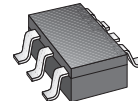
MSOP8



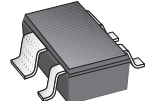
TQFP32



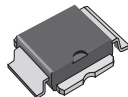
TQFP48



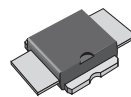
SOT323-6L



SOT343



PowerSO-10RF
Formed Leads



PowerSO-10RF
Straight Leads