



电子元器件系列(中国.厦门) China.Xiamen
www.rf-china.com RF-Micom co.,Ltd



Email:sales@rf-china.com

Telephone:0086-592-5713956 Fax:5201617



TS9000/TS9000A

300mA CMOS Low Dropout Voltage Regulator

TO-92	Pin assignment	SOT-89	Pin assignment
 1 2 3	TS9000 1. Gnd 2. Input 3. Output	 1 2 3	TS9000 1. Gnd 2. Input 3. Output
	TS9000A 1. Input 2. Gnd 3. Output		TS9000A 1. Output 2. Gnd 3. Input

General Description

The TS9000/TS9000A series is a positive voltage regulator developed utilizing CMOS technology featured low quiescent current, low dropout voltage and high output voltage accuracy. Built in low on-resistor provides low dropout voltage and large output current. A 2.2uF or greater can be used as an output capacitor.

The TS9000/TS9000A series are prevented device failure under the worst operation condition with both thermal shutdown and current fold-back. These series are recommended for configuring portable devices and large current application, respectively.

This series are offered in 3-pin TO-92, SOT-89 and SOT-23 package.

Features

- ◇ Dropout voltage typically 0.4V @Io=300mA
- ◇ Output current up to 300mA
- ◇ Low quiescent current
- ◇ Output voltage trimmed before assembly
- ◇ Internal current limit
- ◇ Thermal shutdown protection

Applications

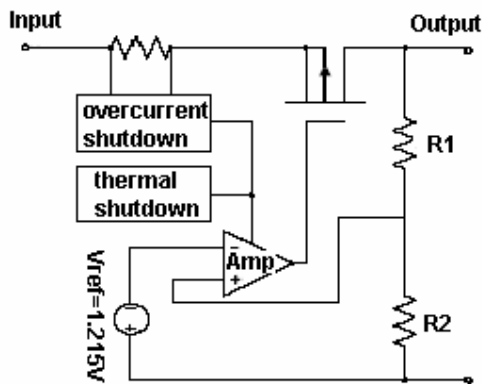
- ◇ Battery power equipment
- ◇ Personal communication devices
- ◇ Home electronic appliances
- ◇ PC peripherals
- ◇ CD-ROM
- ◇ Digital signal camera

Ordering Information

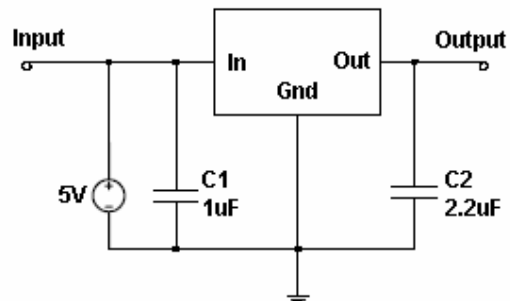
Part No.	Operating Temp. (Ambient)	Package
TS9000 <u>x</u> CT	-40 ~ +85 °C	TO-92
TS9000 <u>x</u> CX		SOT-23
TS9000 <u>x</u> CY		SOT-89
TS9000A <u>x</u> CT		TO-92
TS9000A <u>x</u> CX		SOT-23
TS9000A <u>x</u> CY		SOT-89

Note: Where x denotes voltage option, available are K=2.5V, M=2.7V, N=2.8V, P=3.0V, S=3.3V, U=3.5V, V=3.6V, X=3.8V. Contact factory for additional voltage options.

Block Diagram



Typical Application Circuit



Caution: Stress above the listed absolute rating may cause permanent damage to the device.