



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**



## Cross Reference Guide

### Temperature Sensors

| Fairchild Part Number |        | National Semiconductor Part Number | VCC Range (Volts) | Temp Range (°C) | Package  |
|-----------------------|--------|------------------------------------|-------------------|-----------------|----------|
| FM20P5X               |        | LM20BIM7                           | 2.4 to 5.5        | -55 to +130     | SC-70-5  |
| FM20P5X               |        | LM20BIM7X                          | 2.4 to 5.5        | -55 to +130     | SC-70-5  |
| FM20P5X               |        | LM20CIM7                           | 2.4 to 5.5        | -55 to +130     | SC-70-5  |
| FM20P5X               |        | LM20CIM7X                          | 2.4 to 5.5        | -55 to +130     | SC-70-5  |
| FM50S3X               | Note 1 | LM50BIM3                           | 4.5 to 10         | -25 to +100     | SOT-23-3 |
| FM50S3X               | Note 1 | LM50BIM3X                          | 4.5 to 10         | -25 to +100     | SOT-23-3 |
| FM50S3X               | Note 1 | LM50CIM3                           | 4.5 to 10         | -40 to +125     | SOT-23-3 |
| FM50S3X               | Note 1 | LM50CIM3X                          | 4.5 to 10         | -40 to +125     | SOT-23-3 |
| FM50S3X               | Note 1 | LM45BIM3                           | 4.0 to 10         | -20 to +100     | SOT-23-3 |
| FM50S3X               | Note 1 | LM45BIM3X                          | 4.0 to 10         | -20 to +100     | SOT-23-3 |
| FM50S3X               | Note 1 | LM45CIM3                           | 4.0 to 10         | -40 to +125     | SOT-23-3 |
| FM50S3X               | Note 1 | LM45CIM3X                          | 4.0 to 10         | -40 to +125     | SOT-23-3 |
| FM51S3X               | Note 1 | LM61BIM3                           | 2.7 to 10         | -25 to + 85     | SOT-23-3 |
| FM51S3X               | Note 1 | LM61BIM3X                          | 2.7 to 10         | -25 to + 85     | SOT-23-3 |
| FM51S3X               | Note 1 | LM61CIM3                           | 2.7 to 10         | -30 to + 100    | SOT-23-3 |
| FM51S3X               | Note 1 | LM61CIM3X                          | 2.7 to 10         | -30 to + 100    | SOT-23-3 |
| FM75M8                | Note 2 | LM75CIM-3                          | 3                 | -55 to +125     | SOP-8    |
| FM75M8X               | Note 2 | LM75CIMX-3                         | 3                 | -55 to +125     | SOP-8    |
| FM75MM8               | Note 2 | LM75CIMM-3                         | 3                 | -55 to +125     | MSOP-8   |
| FM75MM8X              | Note 2 | LM75CIMMX-3                        | 3                 | -55 to +125     | MSOP-8   |
| FM75M8                | Note 2 | LM75CIM-5                          | 5                 | -55 to +125     | SOP-8    |
| FM75M8X               | Note 2 | LM75CIMX-5                         | 5                 | -55 to +125     | SOP-8    |
| FM75MM8X              | Note 2 | LM75CIMM-5                         | 5                 | -55 to +125     | MSOP-8   |
| FM75MM8X              | Note 2 | LM75CIMMX-5                        | 5                 | -55 to +125     | MSOP-8   |
| FM75M8                |        | LM76CHM-5                          | 5                 | -10 to +45      | SOP-8    |
| FM75M8X               |        | LM76CHMX-5                         | 5                 | -10 to +45      | SOP-8    |
| FM75M8X               |        | LM76CNM-3                          | 3                 | +70 to +100     | SOP-8    |
| FM75M8X               |        | LM76CNMX-3                         | 3                 | +70 to +100     | SOP-8    |
| FM75M8                | Note 2 | LM77CIM-3                          | 3                 | -55 to +125     | SOP-8    |
| FM75M8X               | Note 2 | LM77CIMX-3                         | 3                 | -55 to +125     | SOP-8    |
| FM75MM8               | Note 2 | LM77CIMM-3                         | 3                 | -55 to +125     | MSOP-8   |
| FM75MM8X              | Note 2 | LM77CIMMX-3                        | 3                 | -55 to +125     | MSOP-8   |
| FM75M8                | Note 2 | LM77CIM-5                          | 5                 | -55 to +125     | MSOP-8   |
| FM75M8X               | Note 2 | LM77CIMX-5                         | 5                 | -55 to +125     | SOP-8    |
| FM75MM8X              | Note 2 | LM77CIMM-5                         | 5                 | -55 to +125     | MSOP-8   |
| FM75MM8X              | Note 2 | LM77CIMMX-5                        | 5                 | -55 to +125     | MSOP-8   |

| Fairchild Part Number |        | Microchip Part Number | VCC Range (Volts) | Temp Range (°C) | Package  |
|-----------------------|--------|-----------------------|-------------------|-----------------|----------|
| FM51S3                |        | TC1047VNB             | 2.5 to 5.5        | -40 to +125     | SOT-23-3 |
| FM75M8X               | Note 2 | TCN75-3.3MOA          | 2.7 to 5.5        | -55 to +125     | MSOP-8   |
| FM75M8X               | Note 2 | TCN75-5.0MOA          | 2.7 to 5.5        | -55 to +125     | MSOP-8   |
| FM75MM8X              | Note 2 | TCN75-3.3MUA          | 2.7 to 5.5        | -55 to +125     | MSOP-8   |
| FM75MM8X              | Note 2 | TCN75-5.0MUA          | 2.7 to 5.5        | -55 to +125     | MSOP-8   |

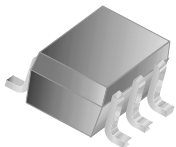
| Fairchild Part Number |        | Maxim/Dallas Part Number | VCC Range (Volts) | Temp Range (°C) | Package |
|-----------------------|--------|--------------------------|-------------------|-----------------|---------|
| FM20P5X               |        | MAX6605MXK-T             | 2.7 to 5.5        | -55 to +130     | SC-70-5 |
| FM75M8X               | Note 2 | DS75S                    | 2.7 to 5.5        | -55 to +130     | SOP-8   |

Note 1 - FM50xx and FM51xx devices have an operating Vcc range of 2.7V to 6.0V

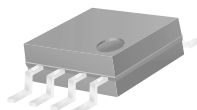
Note 2 - FM75xx has an operating temperature range of -40°C to +125°C

### Available Packages

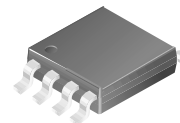
#### SC-70-5



#### SOP-8



#### MSOP-8



Note: Packages are not to actual size.

## Selection Guide

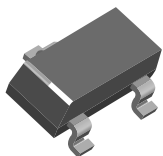
### Supervisory Circuits Portfolio

| Part Number | Package   | Packing Method    | Operating Voltage | Reset Threshold Voltage | Supply Current (µA) V <sub>CC</sub> = 3.6V |     | Supply Current (µA) V <sub>CC</sub> = 5.5V |     | Temp Range (°C) |
|-------------|-----------|-------------------|-------------------|-------------------------|--------------------------------------------|-----|--------------------------------------------|-----|-----------------|
|             |           |                   |                   |                         | Min                                        | Max | Min                                        | Max |                 |
| FM803LP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 4.63                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM803MP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 4.38                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM803JP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 4.00                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM803TP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 3.08                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM803SP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 2.93                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM803RP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 2.63                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM803LS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 4.63                    | 3                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM803MS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 4.38                    | 3                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM803JS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 4.00                    | 3                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM803TS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 3.08                    | 3                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM803SS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 2.93                    | 3                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM803RS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 2.63                    | 3                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM809LP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 4.63                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM809MP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 4.38                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM809JP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 4.00                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM809TP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 3.08                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM809SP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 2.93                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM809RP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 2.63                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM809LS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 4.63                    | 2                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM809MS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 4.38                    | 2                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM809JS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 4.00                    | 2                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM809TS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 3.08                    | 2                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM809SS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 2.93                    | 2                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM809RS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 2.63                    | 2                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM810LP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 4.63                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM810MP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 4.38                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM810JP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 4.00                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM810TP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 3.08                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM810SP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 2.93                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM810RP3X * | SC-70-3   | 3000 units in T&R | 1.6 to 5.5        | 2.63                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM810LS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 4.63                    | 2                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM810MS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 4.38                    | 2                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM810JS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 4.00                    | 2                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM810TS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 3.08                    | 2                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM810SS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 2.93                    | 2                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM810RS3X   | SOT-23-3  | 3000 units in T&R | 1.1 to 5.5        | 2.63                    | 2                                          | 6   | 5                                          | 10  | -40 to +105     |
| FM811LUX *  | SOT-143-4 | 3000 units in T&R | 1.6 to 5.5        | 4.63                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM811MUX *  | SOT-143-4 | 3000 units in T&R | 1.6 to 5.5        | 4.38                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM811JUX *  | SOT-143-4 | 3000 units in T&R | 1.6 to 5.5        | 4.00                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM811TUX *  | SOT-143-4 | 3000 units in T&R | 1.6 to 5.5        | 3.08                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM811SUX *  | SOT-143-4 | 3000 units in T&R | 1.6 to 5.5        | 2.93                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM811RUX *  | SOT-143-4 | 3000 units in T&R | 1.6 to 5.5        | 2.63                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM812LUX *  | SOT-143-4 | 3000 units in T&R | 1.6 to 5.5        | 4.63                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM812MUX *  | SOT-143-4 | 3000 units in T&R | 1.6 to 5.5        | 4.38                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM812JUX *  | SOT-143-4 | 3000 units in T&R | 1.6 to 5.5        | 4.00                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM812TUX *  | SOT-143-4 | 3000 units in T&R | 1.6 to 5.5        | 3.08                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM812SUX *  | SOT-143-4 | 3000 units in T&R | 1.6 to 5.5        | 2.93                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |
| FM812RUX *  | SOT-143-4 | 3000 units in T&R | 1.6 to 5.5        | 2.63                    | 6                                          | 10  | 9                                          | 15  | -40 to + 85     |

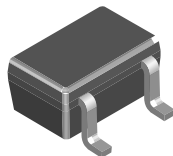
\* — Available Q4'01

### Available Packages

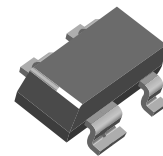
#### SOT-23-3



#### SOT-70-3



#### SOT-143-4



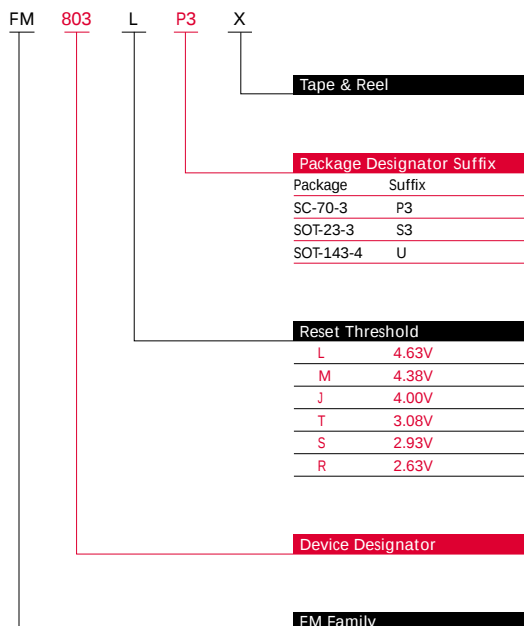
Note: Packages are not to actual size.

## Cross Reference Guide

### Supervisory Circuits

| Fairchild Part Number | Analog Devices Part Number | National Part Number | Maxim Part Number | Reset Threshold Voltage | Temp Range (°C) | Package   |
|-----------------------|----------------------------|----------------------|-------------------|-------------------------|-----------------|-----------|
| FM803LP3              |                            |                      | MAX803LEXR        | 4.63                    | -40 to +85      | SC-70-3   |
| FM803MP3              |                            |                      | MAX803MEXR        | 4.38                    | -40 to +85      | SC-70-3   |
| FM803TP3              |                            |                      | MAX803TEXR        | 3.08                    | -40 to +85      | SC-70-3   |
| FM803SP3              |                            |                      | MAX803SEXR        | 2.93                    | -40 to +85      | SC-70-3   |
| FM803RP3              |                            |                      | MAX803REXR        | 2.63                    | -40 to +85      | SC-70-3   |
| FM809LP3              |                            |                      | MAX809LEXR        | 4.63                    | -40 to +85      | SC-70-3   |
| FM809MP3              |                            |                      | MAX809MEXR        | 4.38                    | -40 to +85      | SC-70-3   |
| FM809TP3              |                            |                      | MAX809TEXR        | 3.08                    | -40 to +85      | SC-70-3   |
| FM809SP3              |                            |                      | MAX809SEXR        | 2.93                    | -40 to +85      | SC-70-3   |
| FM809RP3              |                            |                      | MAX809REXR        | 2.63                    | -40 to +85      | SC-70-3   |
| FM809LS3              | ADM809LART                 | LM809M3-4.63         | MAX809LEUR        | 4.63                    | -40 to +105     | SOT-23-3  |
| FM809MS3              | ADM809MART                 | LM809M3-4.38         | MAX809MEUR        | 4.38                    | -40 to +105     | SOT-23-3  |
| FM809JS3              | ADM809JART                 | LM809M3-4.00         | MAX809JEUR        | 4.00                    | -40 to +105     | SOT-23-3  |
| FM809TS3              | ADM809TART                 | LM809M3-3.08         | MAX809TEUR        | 3.08                    | -40 to +105     | SOT-23-3  |
| FM809SS3              | ADM809SART                 | LM809M3-2.93         | MAX809SUER        | 2.93                    | -40 to +105     | SOT-23-3  |
| FM809RS3              | ADM809RART                 | LM809M3-2.63         | MAX809REUR        | 2.63                    | -40 to +105     | SOT-23-3  |
| FM810LP3              |                            |                      | MAX810LEXR        | 4.63                    | -40 to +85      | SC-70-3   |
| FM810MP3              |                            |                      | MAX810MEXR        | 4.38                    | -40 to +85      | SC-70-3   |
| FM810TP3              |                            |                      | MAX810TEXR        | 3.08                    | -40 to +85      | SC-70-3   |
| FM810SP3              |                            |                      | MAX810SEXR        | 2.93                    | -40 to +85      | SC-70-3   |
| FM810RP3              |                            |                      | MAX810REXR        | 2.63                    | -40 to +85      | SC-70-3   |
| FM810LS3              | ADM810LART                 | LM810M3-4.63         | MAX810LEUR        | 4.63                    | -40 to +105     | SOT-23-3  |
| FM810MS3              | ADM810MART                 | LM810M3-4.38         | MAX810MEUR        | 4.38                    | -40 to +105     | SOT-23-3  |
| FM810JS3              | ADM810JART                 | LM810M3-4.00         |                   | 4.00                    | -40 to +105     | SOT-23-3  |
| FM810TS3              | ADM810TART                 | LM810M3-3.08         | MAX810TEUR        | 3.08                    | -40 to +105     | SOT-23-3  |
| FM810SS3              | ADM810SART                 | LM810M3-2.93         | MAX810SEUR        | 2.93                    | -40 to +105     | SOT-23-3  |
| FM810RS3              | ADM810RART                 | LM810M3-2.63         | MAX810REUR        | 2.63                    | -40 to +105     | SOT-23-3  |
| FM811L                | ADM811LART                 |                      | MAX811LEUS        | 4.63                    | -40 to +85      | SOT-143-4 |
| FM811M                | ADM811MART                 |                      | MAX811MEUS        | 4.38                    | -40 to +85      | SOT-143-4 |
| FM811J                | ADM811JART                 |                      |                   | 4.00                    | -40 to +85      | SOT-143-4 |
| FM811T                | ADM811TART                 |                      | MAX811TEUS        | 3.08                    | -40 to +85      | SOT-143-4 |
| FM811S                | ADM811SART                 |                      | MAX811SEUS        | 2.93                    | -40 to +85      | SOT-143-4 |
| FM811R                | ADM811RART                 |                      | MAX811REUS        | 2.63                    | -40 to +85      | SOT-143-4 |
| FM812L                | ADM812LART                 |                      | MAX812LEUS        | 4.63                    | -40 to +85      | SOT-143-4 |
| FM812M                | ADM812MART                 |                      | MAX812MEUS        | 4.38                    | -40 to +85      | SOT-143-4 |
| FM812J                | ADM812JART                 |                      |                   | 4.00                    | -40 to +85      | SOT-143-4 |
| FM812T                | ADM812TART                 |                      | MAX812TEUS        | 3.08                    | -40 to +85      | SOT-143-4 |
| FM812S                | ADM812SART                 |                      | MAX812SEUS        | 2.93                    | -40 to +85      | SOT-143-4 |
| FM812R                | ADM812RART                 |                      | MAX812REUS        | 2.63                    | -40 to +85      | SOT-143-4 |

### Ordering Information



### Typical Application

