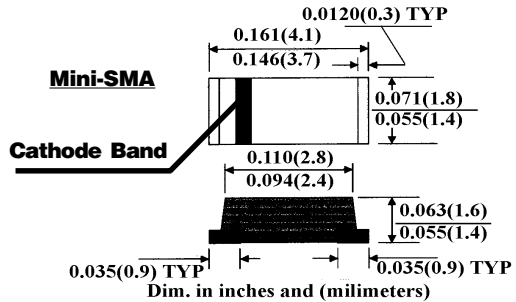


1.0 Amp SURFACE MOUNT PLASTIC SILICON DIODES

Mechanical Dimensions



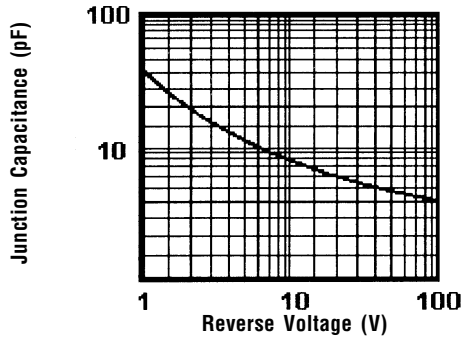
SMA11M . . . 110M Series

Features

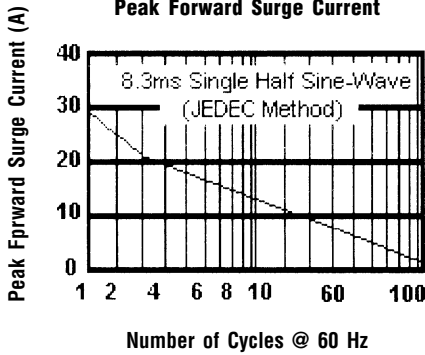
- **LOW COST**
- **HIGH CURRENT CAPABILITY**
- **HIGH SURGE CAPABILITY**
- **LOW FORWARD VOLTAGE WITH LOW LEAKAGE CURRENT**
- **MEETS UL SPECIFICATION 94V-0**

| <i>SMA11M . . . 110M Series</i> | | | | | | | Units |
|--|--------|--------|--------|---------------------|--------|---------|-------|
| Maximum Ratings | SMA11M | SMA12M | SMA14M | SMA16M | SMA18M | SMA110M | |
| Peak Repetitive Reverse Voltage... V_{RRM} | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| RMS Reverse Voltage... $V_{R(rms)}$ | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| DC Blocking Voltage... V_{DC} | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Average Forward Rectified Current... $I_{F(av)}$ | | | | 1.0 | | | Amps |
| Non-Repetitive Peak Forward Surge Current... I_{FSM} | | | | 30 | | | Amps |
| Operating & Storage Temperature Range... T_J, T_{STRG} | | | | -65 to 150 | | | °C |
| Electrical Characteristics | | | | | | | |
| Maximum Forward Voltage @ 1.0A... V_F | | | | 1.1 | | | Volts |
| Maximum Full Load Reverse Current... $I_{R(av)}$ | | | | 30 | | | μAmps |
| Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage | | | | $T_A = 25^\circ C$ | | | μAmps |
| | | | | $T_A = 100^\circ C$ | | | μAmps |
| Typical Junction Capacitance... C_j (Note 1) | | | | 15 | | | pF |

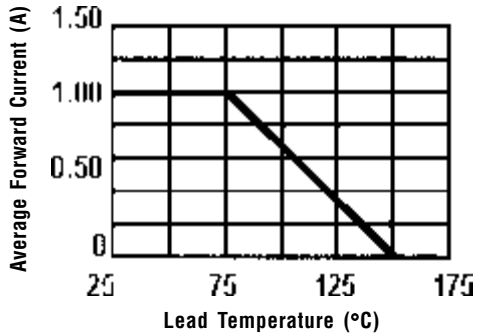
Typical Junction Capacitance



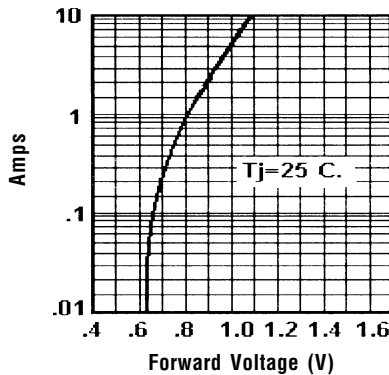
Non-Repetitive
Peak Forward Surge Current



Forward Current Derating Curve



Typical Instantaneous Forward Characteristics



Ratings at
25 Deg. C ambient
temperature
unless otherwise
specified.

Single Phase Half
Wave, 60 Hz
Resistive or
Inductive Load.

For Capacitive
Load, Derate
Current by 20%.

NOTES: 1. Measured @ 1 MHz and applied reverse voltage of 4.0V.