

1.0 Amp SURFACE MOUNT PLASTIC SILICON DIODES

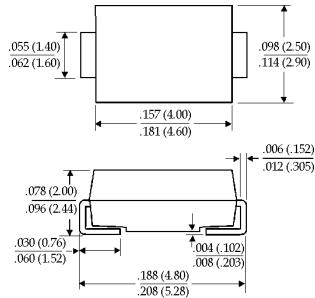
Description

Mechanical Dimensions

SMA11 ... 110 Series



DO-214AC (SMA)

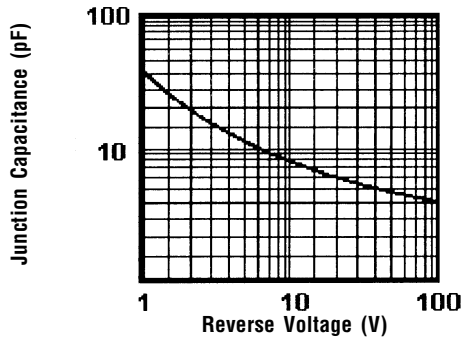


Features

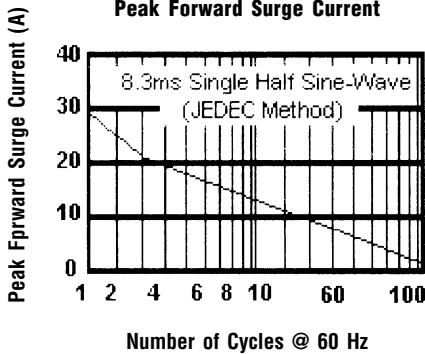
- **LOW COST**
- **HIGH CURRENT CAPABILITY**
- **HIGH SURGE CAPABILITY**
- **LOW FORWARD VOLTAGE WITH LOW LEAKAGE CURRENT**
- **MEETS UL SPECIFICATION 94V-0**

SMA11 ... 110 Series							Units
Maximum Ratings	SMA11	SMA12	SMA14	SMA16	SMA18	SMA110	
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 175	.....		°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	.....			5.0	.....		μAmps
	.....			50	.....		μAmps
Typical Junction Capacitance... C_j (Note 1)	.....			30	.....		pF

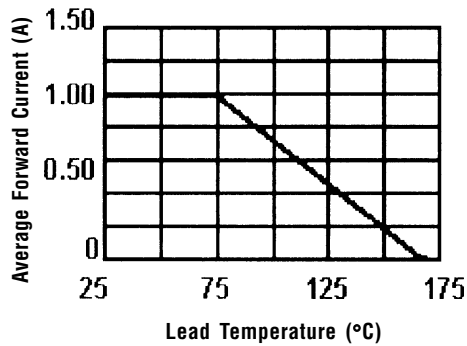
Typical Junction Capacitance



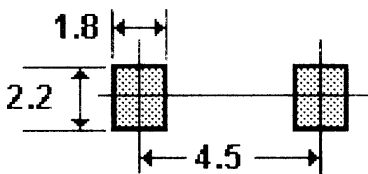
Non-Repetitive
Peak Forward Surge Current



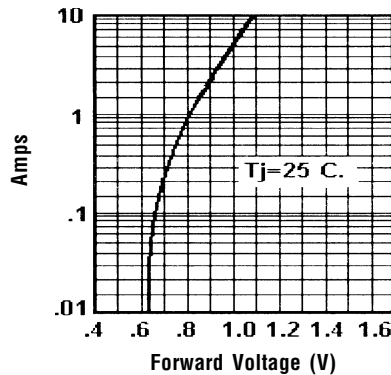
Forward Current Derating Curve



Recommended Soldering Pad Layout



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.