

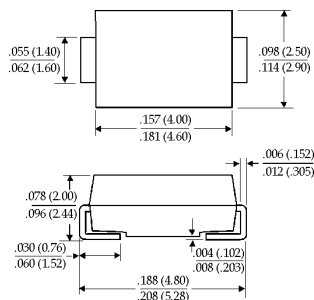
1.0 Amp SURFACE MOUNT PLASTIC SILICON DIODES

Description



Mechanical Dimensions

DO-214AC
(SMA)



Dimensions in inches and (millimeters)

Features

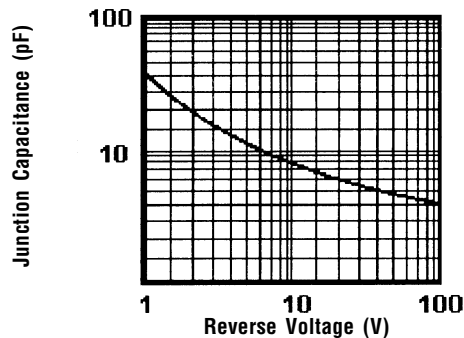
- **LOW COST**
- **HIGH CURRENT CAPABILITY**
- **HIGH SURGE CAPABILITY**
- **LOW FORWARD VOLTAGE WITH LOW LEAKAGE CURRENT**
- **MEETS UL SPECIFICATION 94V-0**

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	T _c = 25°C	5.0				μAmps	
	T _c = 75°C	50				μAmps	
Typical Junction Capacitance...C _j (Note 1)	30						pF

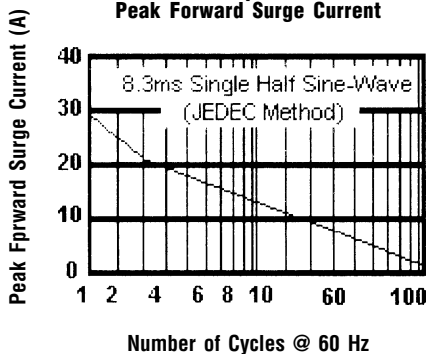
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SMA11...110 Series

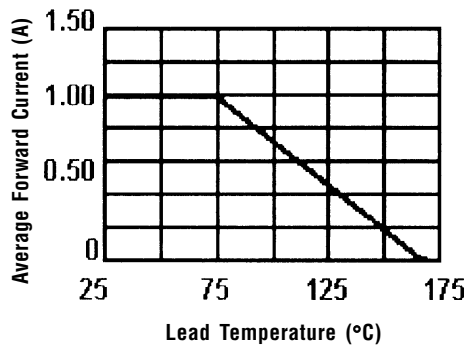
Typical Junction Capacitance



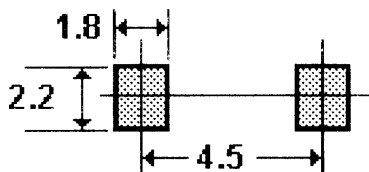
Non-Repetitive
Peak Forward Surge Current



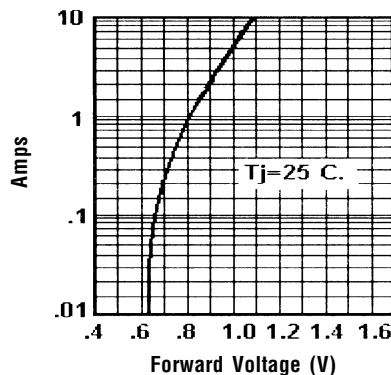
Forward Current Derating Curve



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.