

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- · Low Forward Voltage and High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C(SS12-L~SS14-L)
- Operating Junction Temperature Range: -55°C to +150°C(SS15-L~SS110-L)
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 28°C/W Junction to Lead
- Maximum Thermal Resistance: 55°C/W Junction to Case
- Maximum Thermal Resistance: 88°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SS12-L	SS12	20V	14V	20V
SS13-L	SS13	30V	21V	30V
SS14-L	SS14	40V	28V	40V
SS15-L	SS15	50V	35V	50V
SS16-L	SS16	60V	42V	60V
SS18-L	SS18	80V	56V	80V
SS110-L	SS110	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

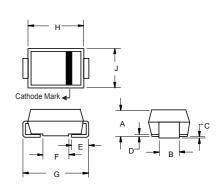
Average Forward Current	$I_{F(AV)}$	1.0A	Fig.1
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage SS12-L~SS14-L SS15-L~SS16-L SS18-L~SS110-L	V _F	0.50V 0.70V 0.85V	I _{FM} =1.0A; T _J =25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage SS12-L~SS16-L SS18-L~SS110-L SS12-L~SS16-L SS18-L~SS110-L	I _R	0.1mA 0.05mA 10mA 5mA	T _J =25°C T _J =25°C T _J =100°C T _J =100°C
Typical Junction Capacitance SS12-L~SS14-L SS15-L~SS16-L SS18-L~SS110-L	С	52pF 45pF 35pF	Measured at 1.0MHz, V _R =4.0V

^{*}Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

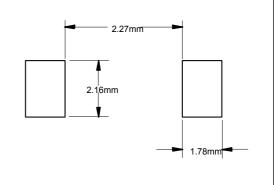
1 Amp Schottky Rectifier 20 to 100 Volts

SMA (DO-214AC)



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.079	0.096	2.00	2.44		
В	0.050	0.064	1.27	1.63		
С	0.002	0.006	0.051	0.203		
D		0.020		0.51		
Е	0.030	0.060	0.76	1.52		
F	0.065	0.091	1.65	2.32		
G	0.189	0.220	4.80	5.59		
Н	0.157	0.181	4.00	4.60		
J	0.090	0.115	2.25	2.92		

SUGGESTED SOLDER PAD LAYOUT





Curve Characteristics

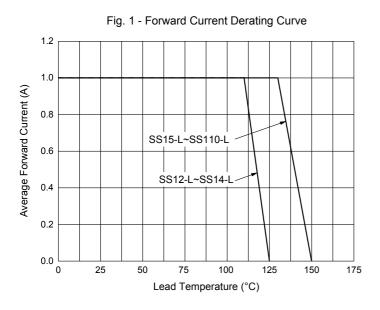


Fig. 3 - Typical Instantaneous Forward Characteristics

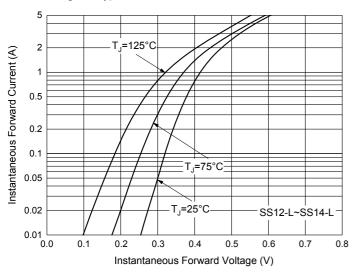


Fig. 5 - Typical Instantaneous Forward Characteristics

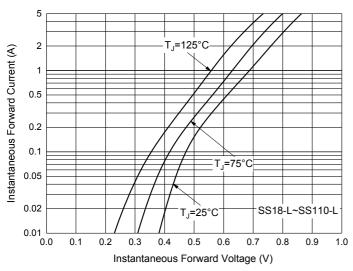


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

35

20

20

10

8.3 ms Single Half Sine-Wave
0
1
10
100
100

Fig. 4 - Typical Instantaneous Forward Characteristics

Number of Cycles at 60 Hz

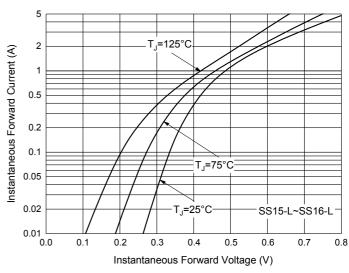
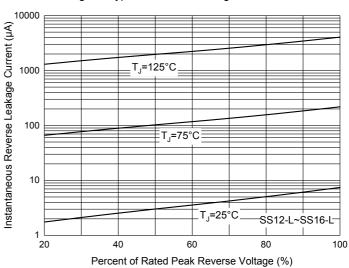
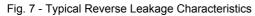


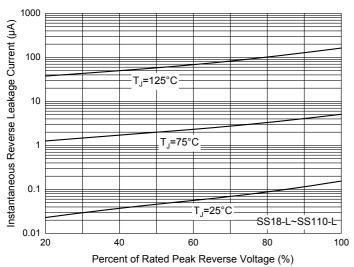
Fig. 6 - Typical Reverse Leakage Characteristics





Curve Characteristics







Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 5Kpcs/Reel	

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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