

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Low Leakage Current
- Glass Passivated Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range:-55°C to +150°C
- Typical Thermal Resistance: 50°C/W Junction to Ambient
- Typical Thermal Resistance: 28°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SM4001PLHE3	A1	50V	35V	50V
SM4002PLHE3	A2	100V	70V	100V
SM4003PLHE3	A3	200V	140V	200V
SM4004PLHE3	A4	400V	280V	400V
SM4005PLHE3	A5	600V	420V	600V
SM4006PLHE3	A6	800V	560V	800V
SM4007PLHE3	A7	1000V	700V	1000V

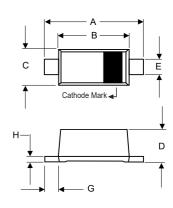
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _A =75°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.1V	I _F =1.0A; T _A =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	1μΑ 50μΑ	T _A =25°C; T _A =100°C
Maximum Full Load Reverse Current Average ,Full Cycle 9.5mm Lead Length	I _R	30µA	T _L =75°C;
Typical Junction Capacitance	CJ	10 pF	Measured at 1.0MHz, V _R =4.0V
Reverse Recovery Time	t _{rr}	1000ns Min 3000ns Max	I _F =0.5A,I _R =1.0A I _{RR} =0.25A

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

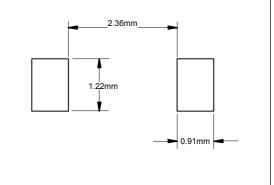
1.0 Amp Silicon Rectifier 50 to 1000 Volts

SOD-123FL



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.130	0.152	3.30	3.85		
В	0.100	0.122	2.55	3.10		
С	0.055	0.075	1.40	1.90		
D	0.035	0.053	0.90	1.35		
Е	0.020	0.041	0.50	1.05		
G	0.010		0.25			
Н		0.010		0.25		

SUGGESTED SOLDER PAD LAYOUT



^{2.} High Temperature Solder Exemptions Applied, see EU Directive Annex 7a.



Curve Characteristics

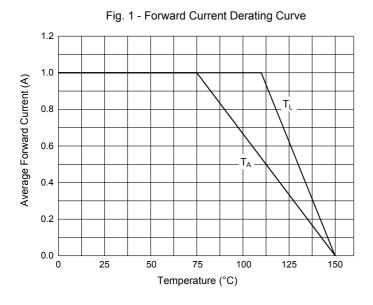


Fig. 3 - Typical Instantaneous Forward Characteristics

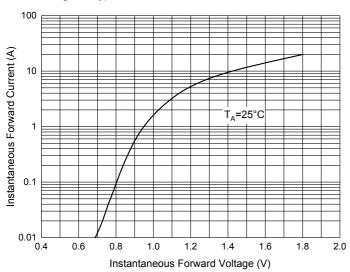


Fig. 5 - Typical Junction Capacitance

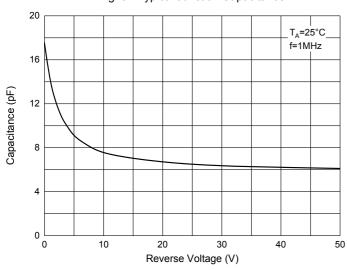
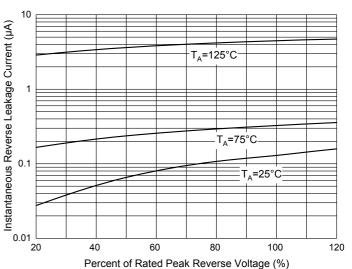


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

35
30
20
20
15
8.3 ms Single Half Sine-Wave
0
1 10 100
Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel	

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