

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

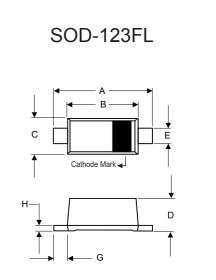
Electrical Characteristics @ 25°C Unless Otherwise Specified

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 =25⁰C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 50μA	T _A =25⁰C; T _A =100⁰C
Maximum Full Load Reverse Current Average ,Full Cycle 9.5mm Lead Length	I _R	30µA	T _L =75⁰C;
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.

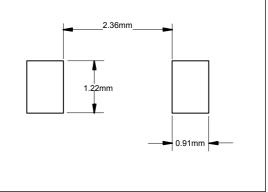
2. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a.

1.0 Amp Silicon Rectifier 50 to 1000 Volts



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
А	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		
E	0.020	0.041	0.50	1.05		
G	0.010		0.25			
Н		0.010		0.25		

SUGGESTED SOLDER PAD LAYOUT





Curve Characteristics

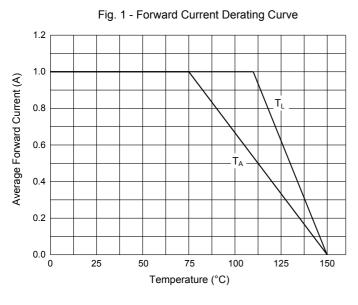
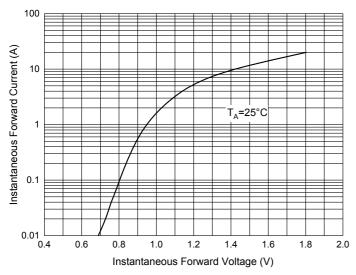
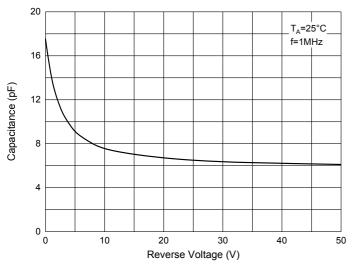
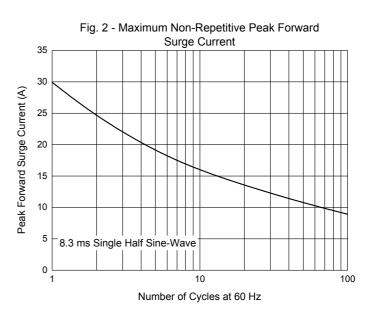


Fig. 3 - Typical Instantaneous Forward Characteristics

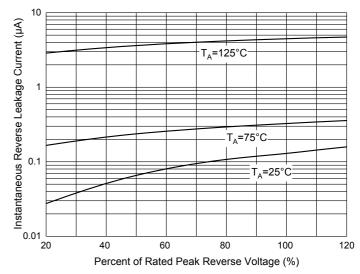














Ordering Information

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

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