

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 28°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	iviaximum	Maximum DC Blocking Voltage
SMD1150PLHE3	D15	150V	105V	150V
SMD1200PLHE3	D20	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

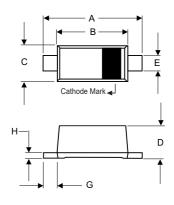
Average Forward Current	I _{F(AV)}	1.0A	T _L =100°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage SMD1150PLHE3 SMD1200PLHE3		0.85V 0.95V	I _{FM} =1.0A; T _J =25°C (Note:3)
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.01mA 1mA	T _J =25°C T _J =100°C
Typical Junction Capacitance	СЈ	30pF	Measured at 1.0MHz, V _R =4.0V

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

- $\hbox{2. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7a.}\\$
- 3. Pulse test: Pulse width 300 µsec, Duty cycle 2%

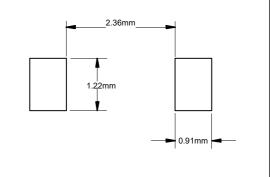
1 Amp Schottky Rectifier 150 to 200 Volts

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				
Ι		0.010		0.25			

Suggested Solder Pad Layout





Curve Characteristics

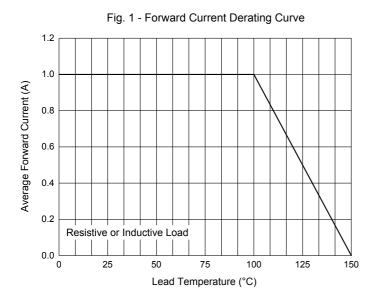
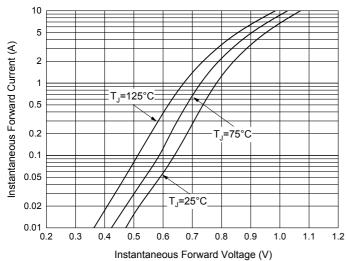


Fig. 3 - Typical Instantaneous Forward Characteristics



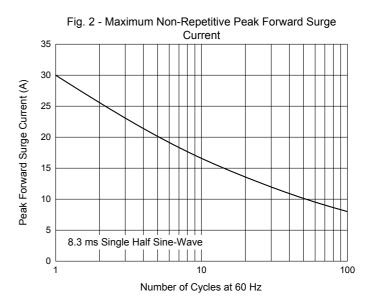
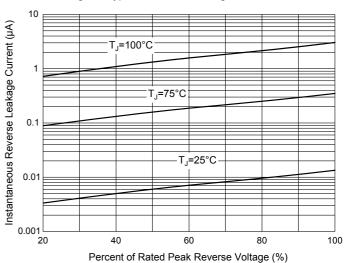


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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