

Features

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS 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 +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(Note 2): 125°C/W Junction to Ambient
- Typical Thermal Resistance(Note 2): 30°C/W Junction to Lead
- Typical Thermal Resistance(Note 2): 40°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	iviaximum	Maximum DC Blocking Voltage
SMD14PE	14	40V	28V	40V

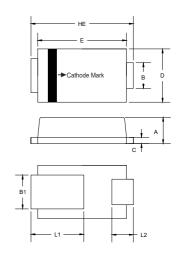
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	Fig.1
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Instantaneous Forward Voltage	V_{F}	0.42V(Typ.) 0.48V(Typ.) 0.52V(Max.) 0.32V(Typ.) 0.41V(Typ.)	I _F =0.5A; T _J =25°C I _F =1.0A; T _J =25°C I _F =1.0A; T _J =25°C I _F =0.5A; T _J =125°C I _F =1.0A; T _J =125°C
DC Reverse Current At Rated DC Blocking Voltage	I _R	50μA(Max.) 7.5μA(Typ.) 10mA(Max.) 3mA(Typ.)	T _J =25°C T _J =125°C

^{*}Pulse Test: Pulse Width 300 μ sec, Duty Cycle 1% Note :

1 Amp Schottky Rectifier 40 Volts

SOD-323HE



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.022	0.030	0.550	0.750			
В	0.021	0.029	0.530	0.730			
B1	0.028	0.036	0.720	0.920			
С	0.004	0.010	0.100	0.250			
D	0.047	0.055	1.200	1.400			
E	0.081	0.089	2.050	2.250			
L1	0.047	0.055	1.200	1.400			
L2	0.016	0.024	0.400	0.600			
HE	0.094	0.102	2.400	2.600			

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

^{2.} $R_{\theta JA}$ and $R_{\theta JL}$ Mounted on PCB With 6.0 mm x 6.0 mm Copper Pad Areas $R_{\theta JC}$ is measured at the top center of the body.



Curve Characteristics

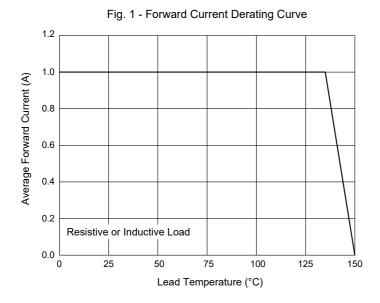
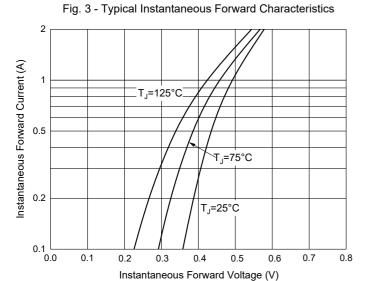
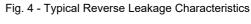
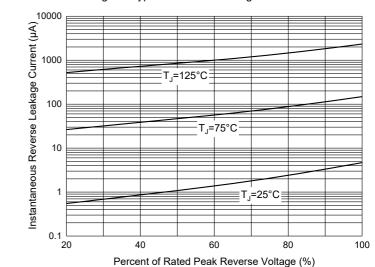


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

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









Ordering Information

Device	Packing	
SMD14PE-TP	Tape&Reel: 4.5 Kpcs/Reel	

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