

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	Maximum	Maximum DC Blocking Voltage
SMD14PE	14	40V	28V	40V

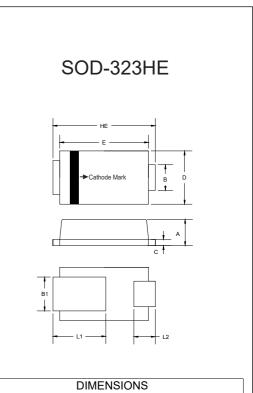
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	50µА(Max.) 7.5µА(Тур.) 10mА(Max.) 3mА(Тур.)	T _J =25⁰C T _J =125⁰C

*Pulse Test: Pulse Width 300 µsec, Duty Cycle 1% 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. R_{eJA} and R_{eJL} Mounted on PCB With 6.0 mm x 6.0 mm Copper Pad Areas R_{eJC} is measured at the top center of the body.

1 Amp Schottky Rectifier 40 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	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	



Curve Characteristics

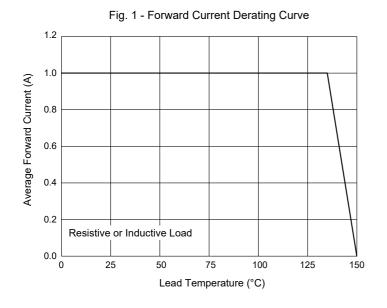
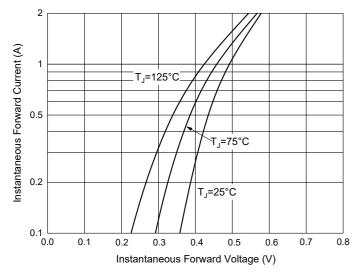


Fig. 3 - Typical Instantaneous Forward Characteristics



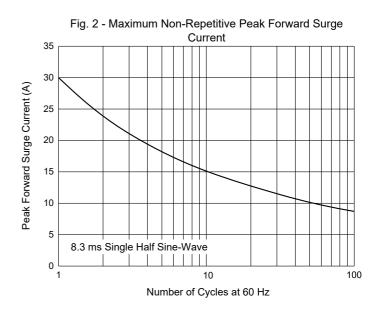
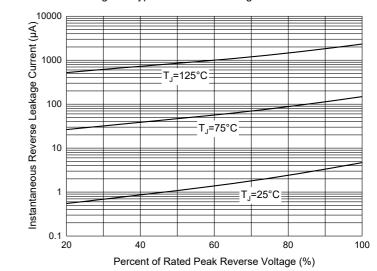


Fig. 4 - Typical Reverse Leakage Characteristics







Ordering Information

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

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