

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · High Current Capability
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- · Guardring For Overvoltage Protection.
- Silicon Epitaxial Planar Chip, Metal Silicon Junction
- 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: 6°C/W Junction to Lead(Note 2)
- Typical Thermal Resistance: 28°C/W Junction to Case(Note 3)
- Typical Thermal Resistance: 60°C/W Junction to Ambient(Note 2)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SMD34LHE1	T4	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

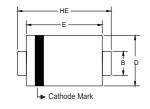
Average Forward Current	I _{F(AV)}	3.0A	T _L = 125°C
Peak Forward Surge Current	I _{FSM}	80A	8.3ms,Half Sine
Instantaneous Forward Voltage	V _F	0.45V(Max) 0.41V(Typ)	I _{FM} =3.0A;
DC Reverse Current at Rated DC Blocking Voltage	I _R	120μA(Max) 30μA(Typ)	V _R =40V;T _J =25°C
Typical Junction Capacitance	CJ	210pF	V _R =4V, f=1MHZ

Note:

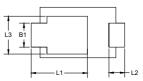
- 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.
- 2.The Thermal Resistance From Junction to Ambient or Lead, Mounted on P.C.B With 5×5mm Copper Pads, 2 OZ, FR4 PCB.
- 3.The Thermal Resistance From Junction to Case, Mounted on P.C.B With Recommended Copper Pads, 2 OZ, FR4 PCB.

3 Amp Low VF Schottky Rectifier 40 Volts

SOD-123HE1

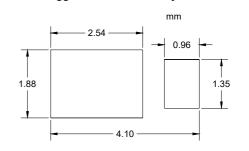






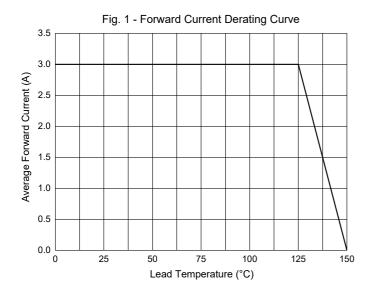
DIMENSIONS							
DIM	INCHES		MM		NOTE		
Dilvi	MIN	MAX	MIN	MAX	NOTE		
Α	0.030	0.035	0.75	0.90			
В	0.033	0.041	0.85	1.05			
B1	0.033	0.041	0.85	1.05			
С	0.004	0.010	0.10	0.25			
D	0.075	0.083	1.90	2.10			
E	0.114	0.122	2.90	3.10			
L1	0.079	0.096	2.00	2.45			
L2	0.016	0.033	0.40	0.85			
L3	0.051	0.067	1.30	1.70			
HE	0.138	0.154	3.50	3.90			

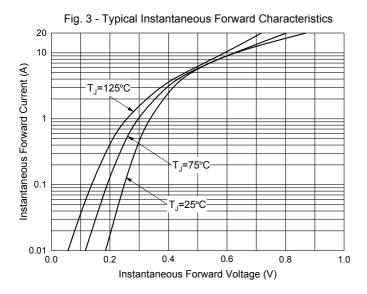
Suggested Solder Pad Layout

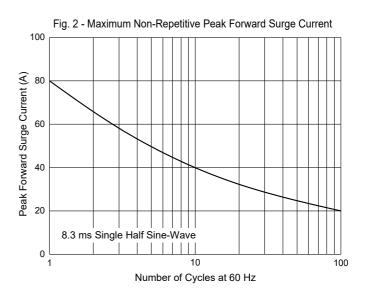


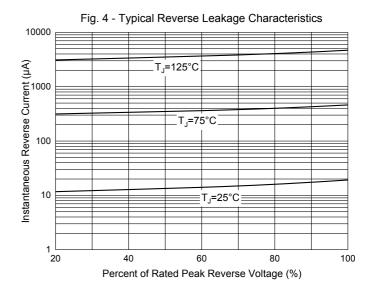


Curve Characteristics











Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 3Kpcs/Reel		

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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