

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: 22°C/W Junction to Lead
- Typical Thermal Resistance: 52°C/W Junction to Ambient
- Typical Thermal Resistance: 12°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	iviaximum	Maximum DC Blocking Voltage
SMD36LHE1	S6	60V	42V	60V

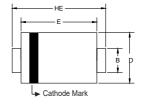
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	3.0A	T _L = 110°C
Peak Forward Surge Current	I _{FSM}	80A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.48V(Max) 0.43V(Typ)	I _{FM} =3.0A;
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	150μA 50mA	V _R =60V;T _J =25°C V _R =60V;T _J =125°C
Maximum Reverse Recovery Time	T _{RR}	35ns	I _F =0.5A, I _R =1.0A, Irr=0.25A

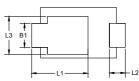
Note :1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

3 Amp Low VF Schottky Rectifier 60 Volts

SOD-123HE1

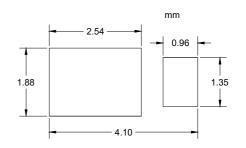






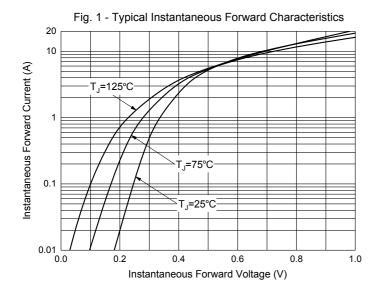
DIMENSIONS							
DIM	INCHES		MM		NOTE		
Dilvi	MIN	MAX	MIN	MAX	INOTE		
Α	0.030	0.035	0.75	0.90			
В	0.033	0.041	0.85	1.05			
B1	0.033	0.041	0.85	1.05			
С	0.004	0.010	0.10	0.25			
D	0.075	0.083	1.90	2.10			
E	0.114	0.122	2.90	3.10			
L1	0.079	0.096	2.00	2.45			
L2	0.016	0.033	0.40	0.85			
L3	0.051	0.067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

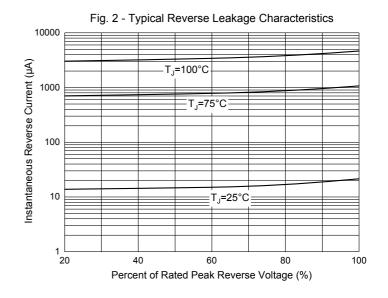
Suggested Solder Pad Layout





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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