Features

- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Halogen Free. “Green” Device (Note 2)
- Glass Passivated Diode Construction
- Super Fast Recovery and Low Switching Loss
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Surface Mount Package

1.0 Amp Super Fast Recovery Bridge Rectifier 200 to 600 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 10°C/W Junction to Case
- Typical Thermal Resistance: 25°C/W Junction to Lead
- Typical Thermal Resistance: 62.5°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SLMB2S	SLB2S	200V	140V	200V
SLMB4S	SLB4S	400V	280V	400V
SLMB6S	SLB6S	600V	420V	600V

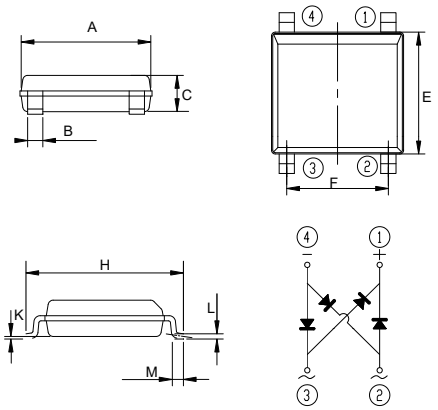
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.0A	T_A = 25°C
Peak Forward Surge Current	I_{FSM}	30A	8.3ms, Half Sine
Peak Forward Voltage SLMB2S SLMB4S SLMB6S	V_F	0.95V 1.30V 1.70V	I_{FM} = 0.5A; T_A= 25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10μA	T_A = 25°C
Maximum Reverse Recovery Time	t_{rr}	35ns	I_F=0.5A, I_R=1.0A, Irr=0.25A
Rating For Fusing	I^2t	3.7 A^2s	t<8.30ms

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

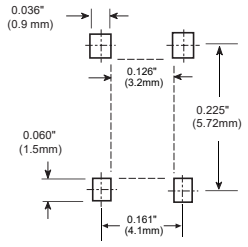
2. Halogen free "Green” products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

LMBS-1



DIM	DIMENSIONS INCHES MIN	INCHES MAX	MM MIN	MM MAX	NOTE
A	0.193	0.205	4.90	5.20	
B	0.024	0.031	0.60	0.80	
C	---	0.059	---	1.50	
E	0.170	0.185	4.30	4.70	
F	0.150	0.165	3.80	4.20	
H	0.236	0.260	6.00	6.60	
K	0.0008	0.008	0.02	0.21	
L	0.006	0.012	0.15	0.30	
M	0.001	0.031	0.25	0.80	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

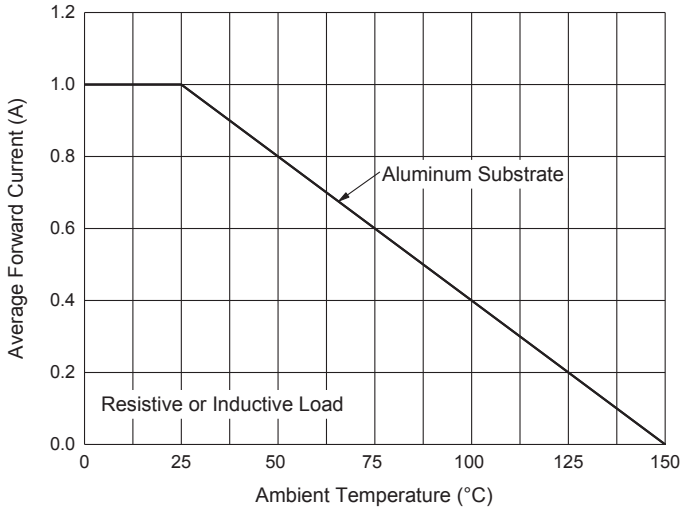


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

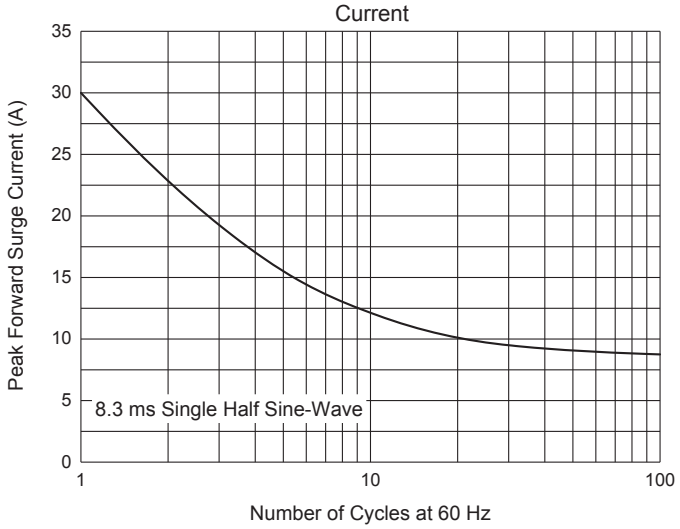


Fig. 3 - Typical Instantaneous Forward Characteristics

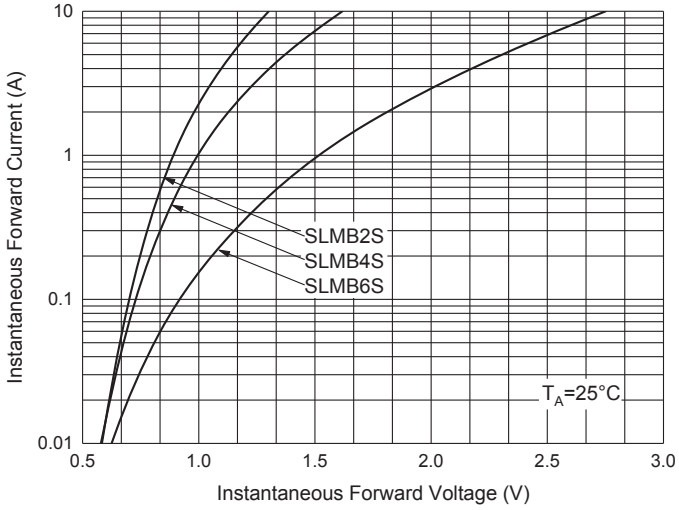
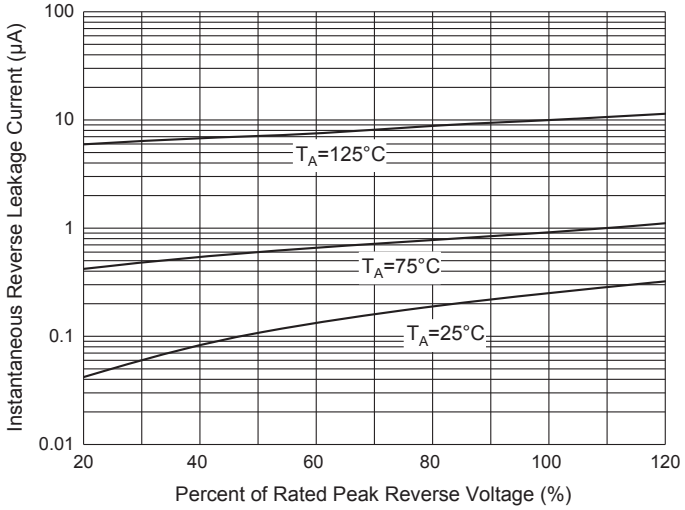


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;5Kpcs/Reel

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