

71	E502650
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Features

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- Moisture Sensitivity Level 1
- Surface Mount Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

		Value					
Parameter	Symbol -	LMB 2S	LMB 4S	LMB 6S	LMB 8S	LMB 10S	Unit
Peak Repetitive Reverse Voltage	V_{RRM}						
Working Peak Reverse Voltage	V_{RWM}	200	400	600	800	1000	V
DC Blocking Voltage	V_R						
RMS Reverse Voltage	V _{RMS}	140	280	420	560	700	V
Average Rectified Forward Current @ See Fig.1	I _{F(AV)}	1.0 on Aluminum Substrate 0.8 on Glass-epoxy P.C.B				Α	
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}			30			A
Non-Repetitive Peak Surge Current @ 1ms Square Wave	IFSM	60					A
Current Squared Time @1ms≤t≤8.3ms	l ² t	3.735				A ² s	

Marking Code

Part Number	Marking Code
LMB2S	LB2S
LMB4S	LB4S
LMB6S	LB6S
LMB8S	LB8S
LMB10S	LB10S

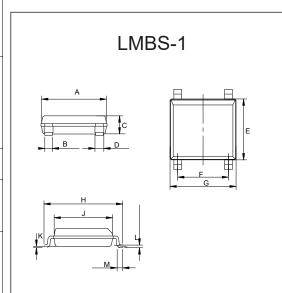
Internal Structure

Simplified Outline	Graphic Symbol		
- + MCC XXXX = Marking Code			

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

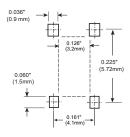
2. High temperature solder exemption applied, see EU directive annex 7a.

1 Amp Single Phase Bridge Rectifier 200 to 1000 Volts



DIMENSIONS						
DIM INCHES		HES	M	NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.197	0.205	4.90	5.20		
В	0.0	24	0.6	30		
С		0.059		1.50		
D	0.024	0.032	0.60	0.80		
Е		0.189		4.80		
F	0.150	0.165	3.80	4.20		
G		0.209		5.30		
Н	0.236	0.252	6.00	6.60		
J	0.177	0.185	4.30	4.70		
K	0.0009	0.004	0.02	0.21		
L	0.006	0.012	0.15	0.30		
M	0.017	0.031	0.25	0.80		

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Note 1		22		°C/W
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		25		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		80		°C/W

Note:

Electrical Characteristics @ 25°C Unless Otherwise Specified(Per Diode)

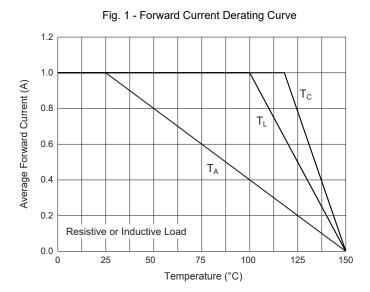
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =0.4A;T _J =25°C			0.95	V
Reverse Current	I _R	at Rated $V_R;T_J=25^{\circ}C$ at Rated $V_R;T_J=125^{\circ}C$			5 100	μΑ
Junction Capacitance	СЈ	V _R =4V;f=1MHz;T _J =25°C		12		pF

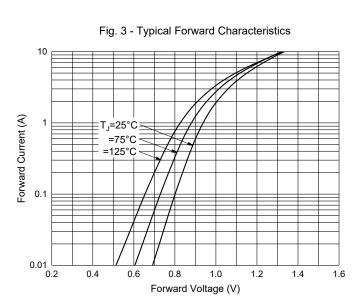
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^{1.}Device mounted P.C.B with 0.47x0.47 (12mmx12mm) copper pads.



Curve Characteristics





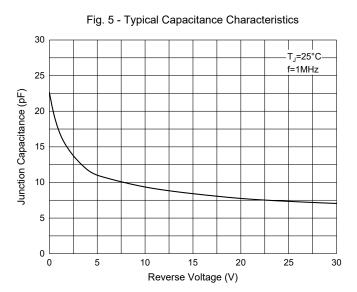


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

35
30
25
10
4
10
5
8.3 ms Single Half Sine-Wave
0
1 10 100
Number of Cycles at 60 Hz

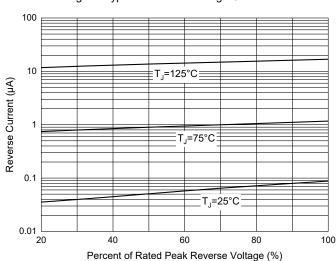


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:5Kpcs/Reel

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Rev.4-1-12072023 4/4 MCCSEMI.COM