

	E540886
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Features

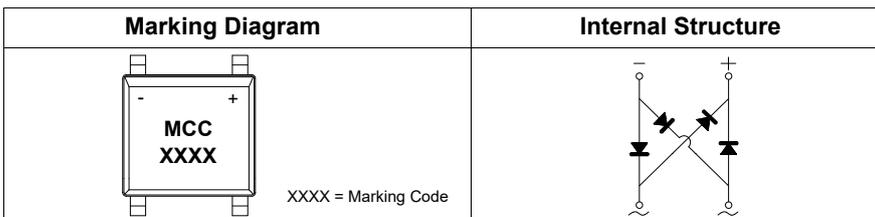
- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- Moisture Sensitivity Level 1
- Surface Mount Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

2 Amp Single Phase Bridge Rectifier 200 to 1000 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

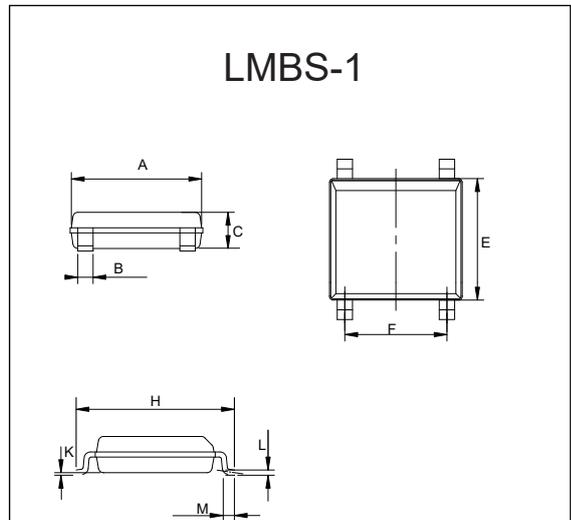
Parameter	Symbol	Value					Unit
		LMB 203S	LMB 204S	LMB 205S	LMB 206S	LMB 207S	
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}						
DC Blocking Voltage	V_R						
RMS Reverse Voltage	V_{RMS}	140	280	420	560	700	V
Average Rectified Forward Current @ $T_C=120^\circ\text{C}$	$I_{F(AV)}$	2.0 on Aluminum Substrate 1.6 on Glass-epoxy P.C.B.					A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I_{FSM}	60					A
Non-Repetitive Peak Surge Current @ 1ms Square Wave		110					
Current Squared Time @ $1\text{ms} \leq t \leq 8.3\text{ms}$	I^2t	15					A ² s

Part Number	Marking Code
LMB203S	LB203S
LMB204S	LB204S
LMB205S	LB205S
LMB206S	LB206S
LMB207S	LB207S



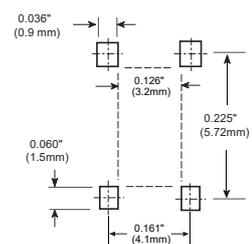
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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



DIM	DIMENSIONS				NOTE
	INCHES		MM		
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



Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_J	Operating Junction Temperature Range		-55		150	°C
T_{stg}	Storage Temperature Range		-55		150	°C
$R_{th(J-C)}$	Thermal Resistance from Junction to Case	Note 1		8		°C/W
$R_{th(J-L)}$	Thermal Resistance from Junction to Lead	Note 1		25		°C/W
$R_{th(J-A)}$	Thermal Resistance from Junction to Ambient	Note 1		62.5		°C/W

Note:

1. Device mounted P.C.B with 35mm*25mm*1.7mm.

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=1.0A; T_J=25^\circ C$			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	μA
Junction Capacitance	C_J	$V_R=4V; f=1MHz; T_J=25^\circ C$		17		pF

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

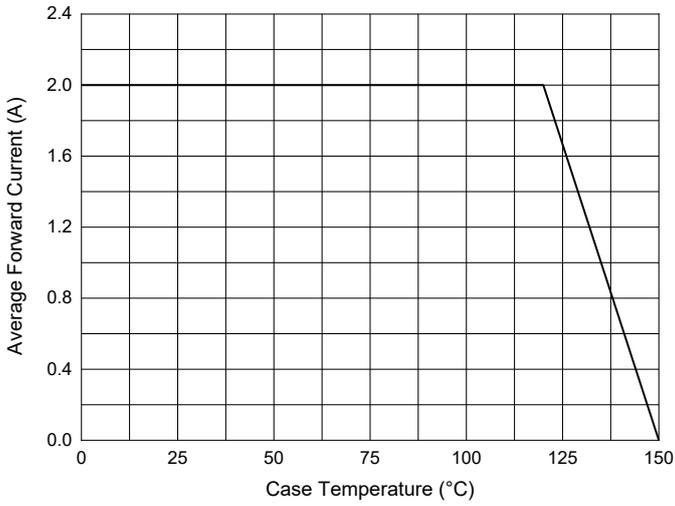


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

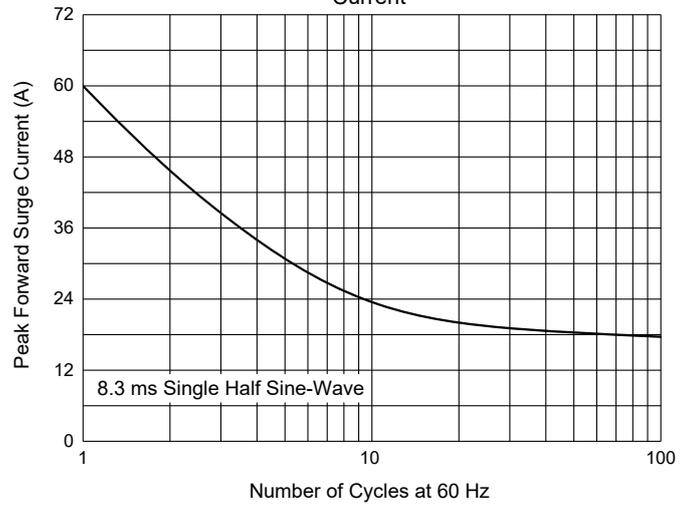


Fig. 3 - Typical Forward Characteristics

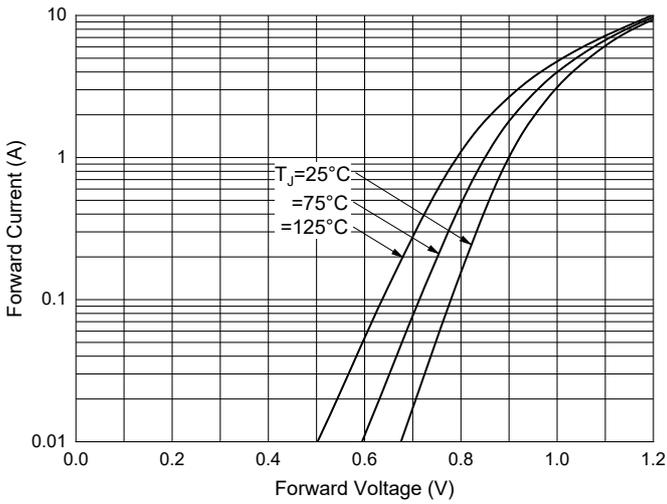


Fig. 4 - Typical Reverse Leakage Characteristics

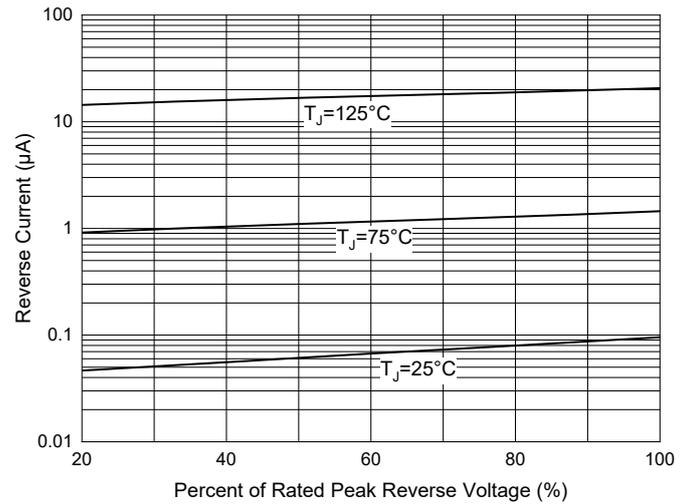
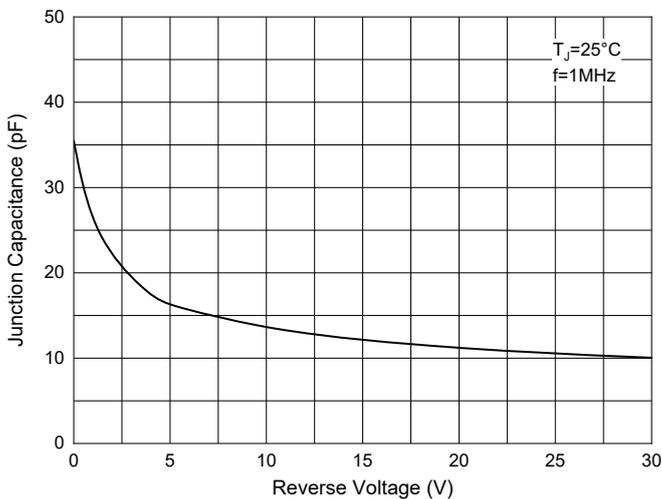


Fig. 5 - Typical Capacitance Characteristics



Ordering Information

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

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