LMB05S THRU LMB10S

0.8A Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifiers

■ Features

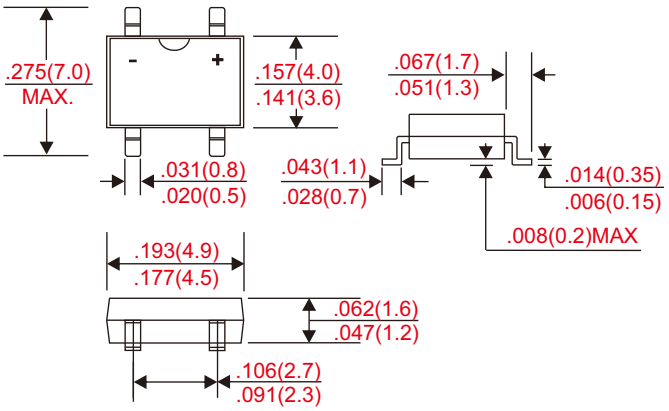
- Surge overload ratings to 35 amperes peak.
- Save space on printed circuit board.
- Ideal for automated replacement.
- Reliable low cost construction utilizing molded plastic technology results in inexpensive product.
- Glass passivated chip junctions.

■ Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, LMBS
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : marked on body
- Weight : 0.129grams

■ Outline

LMBS



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Maximum aversge forward rectified output current	at T_A = 40°C	I_F			0.8	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}			30	A
Reverse current	V_R = V_{RRM} T_A = 25°C	I_R			5.0	uA
	V_R = V_{RRM} T_A = 100°C				500	
Typical junction capacitance	at 1.0MHz and applied reverse voltage of 4.0V DC	C_J		13		pF
Storage temperature		T_{STG}	-55		+150	°C

Symbol	Marking code	Max. repetitive peak reverse voltage V_{RRM} (V)	Max. RMS voltage V_{RMS} (V)	Max. DC blocking voltage V_R (V)	Max. forward voltage @0.8A, T_A = 25°C V_F (V)	Operating temperature T_J (°C)
LMB05S	MB05S	50	35	50	1.1	-55 ~ +150
LMB1S	MB1S	100	70	100		
LMB2S	MB2S	200	140	200		
LMB4S	MB4S	400	280	400		
LMB6S	MB6S	600	420	600		
LMB8S	MB8S	800	560	800		
LMB10S	MB10S	1000	700	1000		

Document ID : DS-22B47
Revised Date : 2016/07/07
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■ Rating and characteristic curves

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

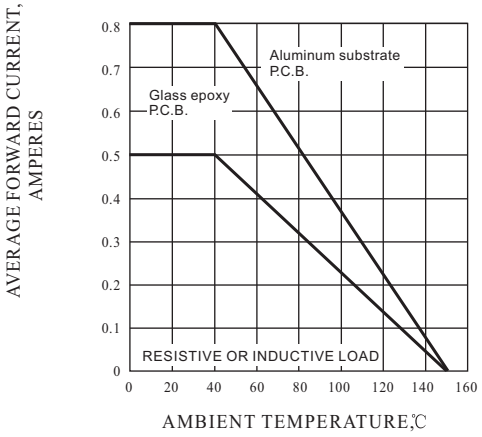


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

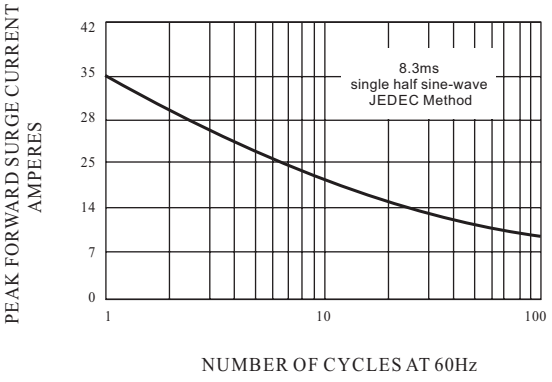


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

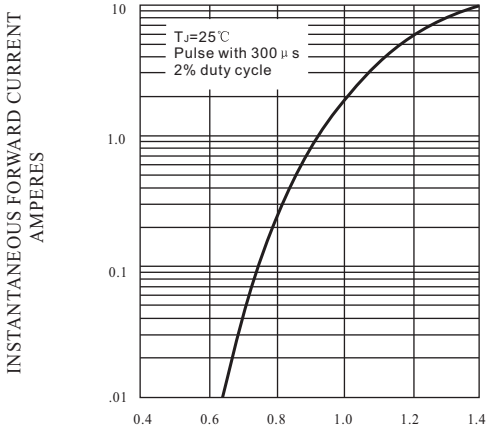


FIG. 4 - TYPICAL REVERS CHARACTERISTICS

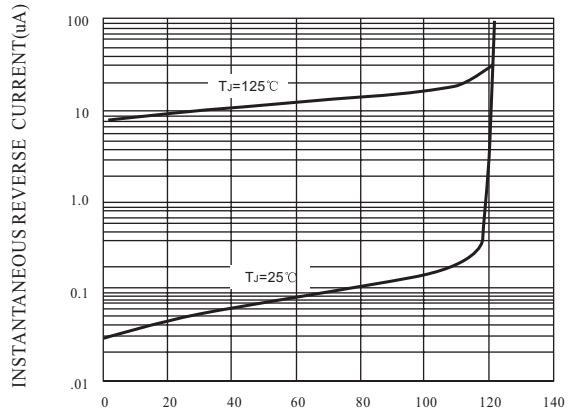
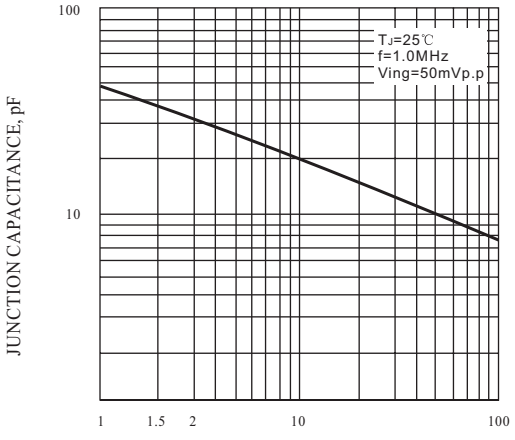


FIG. 5 TYPICAL JUNCTION CAPACITANCE



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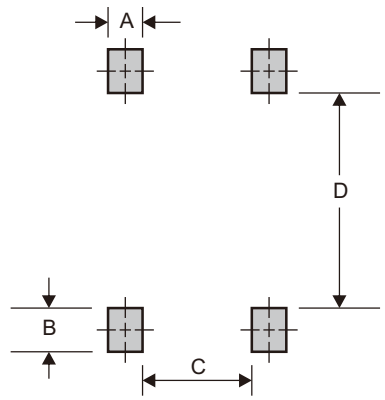
■ LMBS foot print



A	B	C	D
0.030 (0.76)	0.059 (1.50)	0.070 (1.78)	0.222 (5.65)

Dimensions in inches and (millimeters)

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http://www.citcorp.com.tw/ Tel:886-3-5600628 Fax:886-3-5600636

Add:Rm. 3, 2F., No.32, Taiyuan St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)

Document ID : DS-22B47
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