

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

### ■ Features

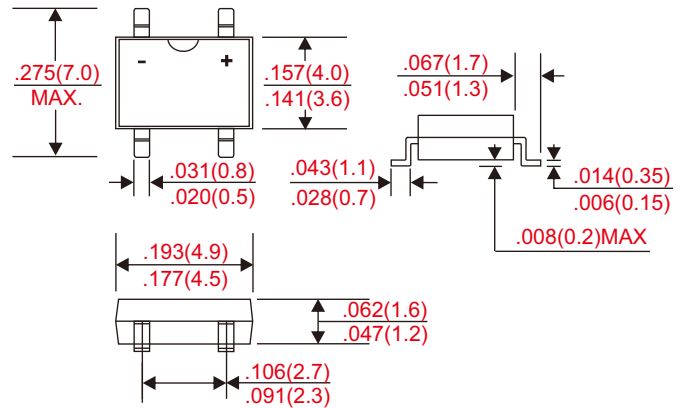
- Surge overload ratings to 35 amperes peak.
- Save space on printed circuit board.
- Ideal for automated replacement.
- Reliable low cost construction utilizing molded plastic technology results in inexpensive product.
- Glass passivated chip junctions.

### ■ 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 average forward rectified output current	at $T_A = 40^\circ\text{C}$	$I_F$			0.8	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$			30	A
Reverse current	$V_R = V_{RRM}$ $T_A = 25^\circ\text{C}$	$I_R$			5.0	uA
	$V_R = V_{RRM}$ $T_A = 100^\circ\text{C}$				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, $T_A = 25^\circ\text{C}$ $V_F$ (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		

■ Rating and characteristic curves

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

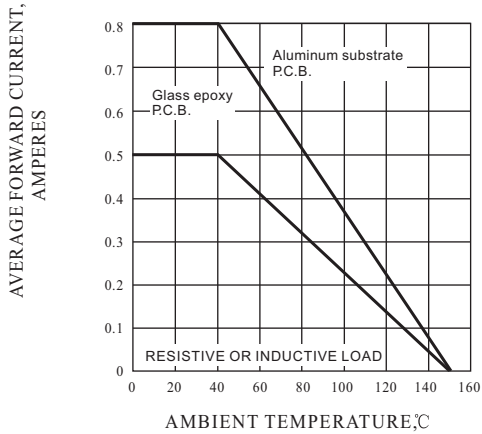


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

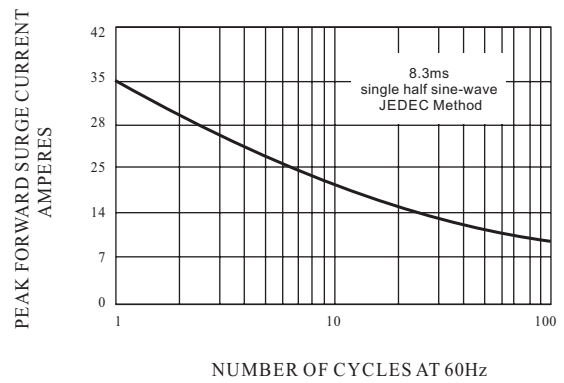


FIG. 4 - TYPICAL REVERS CHARACTERISTICS

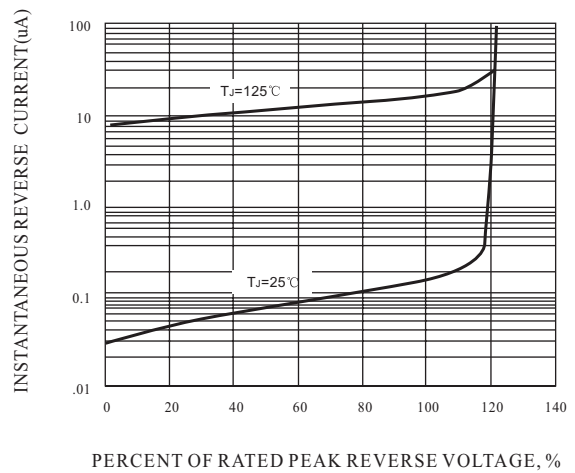


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

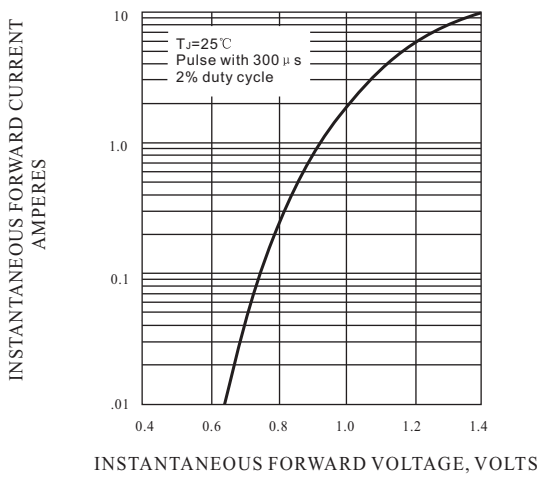
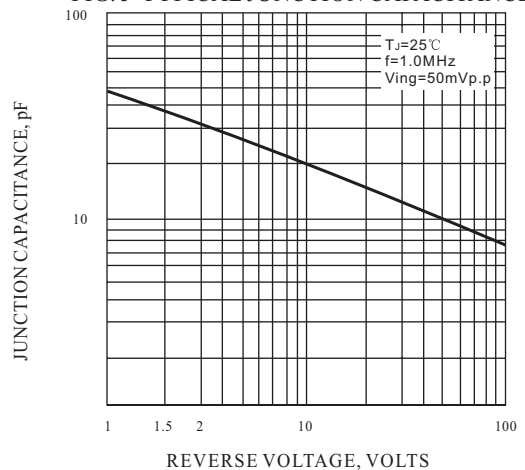
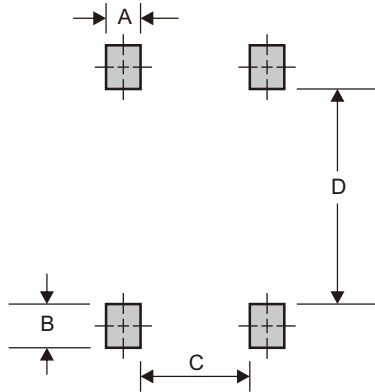


FIG. 5 TYPICAL JUNCTION CAPACITANCE



■ 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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