

LMB1005S THRU LMB110S

1A Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifiers

■ Features

- Surge overload ratings to 30 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.
- Suffix "G" indicates Halogen-free part, ex.LMB1005SG.

■ Mechanical data

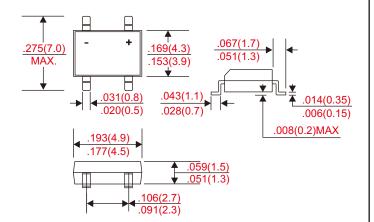
- Epoxy:UL94-V0 rated flame retardant
- · Case: Molded plastic, LMBS
- Terminals : Solder plated, solderable per

MIL-STD-750, Method 2026

• Polarity : marked on body

Outline

LMBS



Dimensions in inches and (millimeters)

Maximum ratings and electrical characteristics

Rating at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Maximum aversge forward rectified output current	at T _A = 40°C	Io			1.0	А
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			30	А
Reverse current	$V_R = V_{RRM} T_A = 25^{\circ}C$				5.0	uA
	$V_R = V_{RRM} T_A = 100^{\circ}C$	I _R			500	
Typical junction capacitance	at 1.0MHz and applied reverse voltage of 4.0V DC	C,	·	15		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 $V_{_{\mathbb{R}}}(V)$	Max. forward voltage $@0.8A, T_A = 25^{\circ}C$ $V_F(V)$	Operating temperature T _J (°C)
LMB1005S	MB105S	50	35	50		
LMB101S	MB11S	100	70	100		
LMB102S	MB12S	200	140	200		
LMB104S	MB14S	400	280	400	1.0	-55 ~ +150
LMB106S	MB16S	600	420	600		
LMB108S	MB18S	800	560	800		
LMB110S	MB110S	1000	700	1000		

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■ Rating and characteristic curves

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

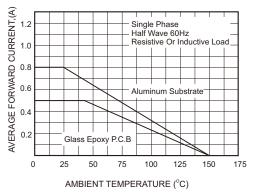


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

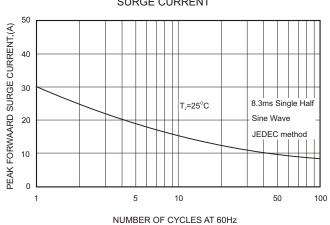


FIG.3-TYPICAL FORWARD

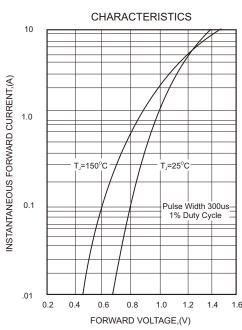
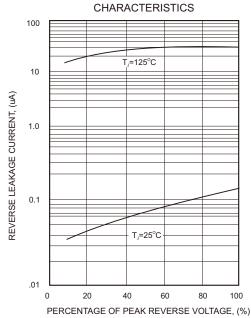


FIG.4-TYPICAL REVERSE CHARACTERISTICS



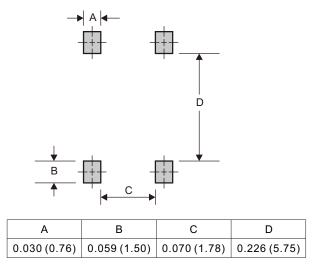
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■ LMBS foot print



Dimensions in inches and (millimeters)

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