

MSB30A thru MSB30M

GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 3 Amperes

MSBL

GENERAL DESCRIPTION

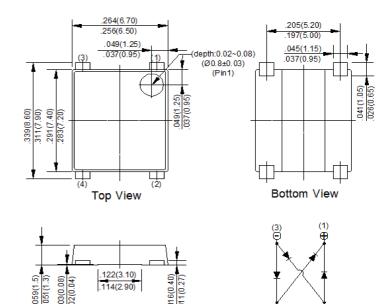
Suitable for AC-to-DC bridge full wave rectification for SMPS, LED lighting, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

FEATURES

- Compact, thin profile package design
- Ideal for SMT manufacturing
- Reliable robust construction

MECHANICAL DATA

- Molding compound meets UL 94 V-0 flammability rating,
 Halogen-free, RoHS-compliant, and commercial grade
- Polarity indicator: As marked on body



Dimensions in inches and (millimeters)

Side View

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%.

CHARACTERISTICS		SYMBOL	MSB30A	MSB30B	MSB30D	MSB30G	MSB30J	MSB30K	MSB30M	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	@Tc =120°C	I(AV)				2		•	•	А
Peak Forward Surge Current	@ 8.3ms	IFSM	75							Α
Maximum Forward Voltage @ TJ = 25℃	@ 1.0A DC @ 2.0A DC	VF	1 1.1					V		
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TJ=25℃ @TJ=125℃	lR	5 500						μΑ	
Typical junction Capacitance per element (Note 1)		СJ	35							pF
I ² t Rating for fusing (1ms < t < 8.3ms)		l ² t	23.3							l ² t
Typical Thermal Capacitance (Note 2)		Rejc Rejl Reja	8 15 25							°C/W
Operating Temperature Range		TJ	-55 to +150							$^{\circ}\!\mathbb{C}$
Storage Temperature Range		Tstg	-55 to +150							$^{\circ}$

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

- Thermal Resistance test performed in accordance with JESD-51. Unit mounted on 15 mm*12 mm*1.6 mm AL pad attach 195 mm*110 mm*10 mm steel plate
- 3.The typical data above is for reference only(典型值仅供参考).

RATING AND CHARACTERISTIC CURVES MSB30A thru MSB30M

