

GLASS PASSIVATED SUFACE MOUNT BRIDGE RECTIFIER

MSB08M

REVERSE VOLTAGE – 1000 Volts FORWARD CURRENT – 0.8 Amperes

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

- Rated at 1000V PRV.
- Compact, thin profile package design
- · Ideal for SMT manufacturing
- Reliable robust construction
- UL recognized filed# E364304

MECHANICAL DATA

- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.)
- Polarity indicator : As marked on body
- Marking code: MB08M
- Weight : 67mg (Approximate)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	1000	V
Maximum DC blocking voltage		V _{DC}	1000	V
Maximum average forward rectified current	@T _C = 120°C	I _(AV)	0.8	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.	T」= 25°C T」=125°C	I _{FSM}	30 25	А
Peak forward surge current 1ms single half sine-wave superimposed on rated load.	T」= 25°C T」=125°C	I _{FSM}	60 50	А
I^2 t rating for fusing (t = 8.3ms)		l ² t	3.7	A ² S
Operating and storage temperature range		T _J ,T _{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	TYP.	МАХ	UNIT
Forward voltage	I _F = 0.4A	TJ= 25°C TJ =125°C	V _F	 0.77	1.02	V
	I _F = 0.8A	TJ= 25°C TJ =125°C		 0.85	1.05	
Leakage current	V _R = 1000V	TJ= 25°C TJ =125°C	I _R		5.0 500	uA
Typical junction capacitance (Note 1)		CJ	12		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР.	UNIT
Thermal resistance (Note 2)	RthJ _C RthJ∟ RthJ _A	12 40 80	°C/W

Note :

(1) Measured at 1.0MHz and applied voltage of 4.0VDC.

(2) Thermal resistance test performed in accordance with JESD-51. Unit mounted on glass-epoxy substrate with 1oz/f²t _ 10 mm * 10 mm copper pad per pin



(2)

Pin Assignment



(3)

(4)

MECHANICAL INFORMATION MSB08M



Package Dimension :



Bottom view

MSB					
Dim.	Min.	Тур.	Max.		
А	1.10	1.20	1.30		
A1	0.05		0.08		
A2	0.00	0.02	0.05		
A3	0.03	0.05	0.08		
С	0.12	0.15	0.18		
D	4.40	4.5	4.60		
D1	0.60	0.65	0.70		
Е	4.90	5.00	5.10		
E1	5.80	5.90	6.10		
E2	0.60	0.65	0.70		
L	0.70	0.80	1.00		
b	0.55	0.60	0.70		
е	3.45	3.50	3.55		
К	2.95	3.00	3.05		
All dimensions in millimeter					

RATING AND CHARACTERISTIC CURVES MSB08M

LITEON



PACKING INFORMATION MSB08M









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