VI. Bridge Rectifier

Single-Phase Silicon Bridge Rectifiers MB2M~MB10M

FEATURES

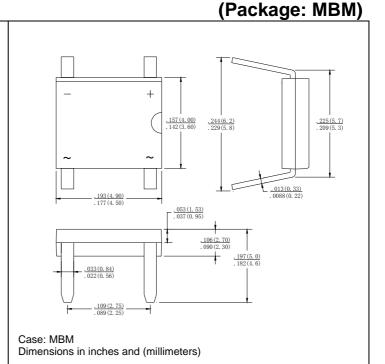
- Reliable low cost construction utilizing molded plastic technique.
- · High surge current capability.
- Saves space on printed circuit boards.
- High temperature soldering guaranteed:
 260 / 10 seconds at 5 lbs (2.3 Kg) tension.

MECHANICAL DATA

Case : Molded plastic.Terminals : Plated leads.

• Polarity: Polarity symbols marked on case.

Mounting position : Any.Weight : 0.140 grams



Ratings & Electrical Characteristics

Characteristic	Symbol	MB2M	MB4M	МВ6М	МВ8М	MB10M	Units
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	Volts
Maximum average forward rectified current @Ta = 40	lo	0.8					Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load. (JEDEC Method)	I _{FSM}	30					Amps
Maximum instantaneous forward voltage drop at 0.4A	V _F	1.1					Volts
Maximum DC reverse current at @Ta = 25 rated DC blocking voltage per leg @Ta = 125	I _R	5.0 500					μΑ
Typical thermal resistance (Note)	Rth-JC	75					/W
Operating junction temperature range	Tj	-55 to +150					
Storage temperature range	Tstg	-55 to +150					

Note:

Thermal resistance: Junction to Case.

Ratings and Characteristic Curves of MB2M~MB10M

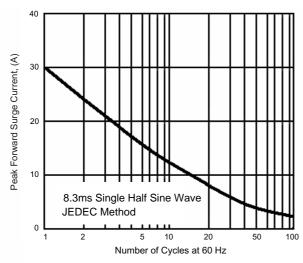


Fig.1 Maximum Non-Repetitive Forward Surge Current per Bridge Element

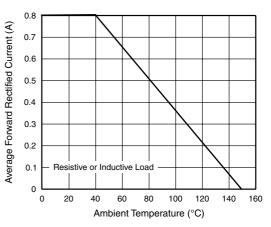


Fig.2 Derating Curve for Output Rectified Current

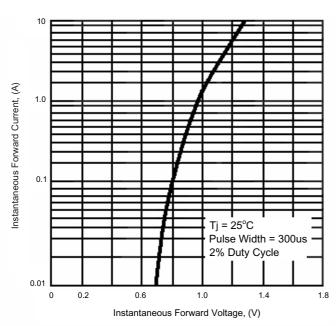


Fig.3 Typical Instantaneous Forward Characteristics per Bridge Element

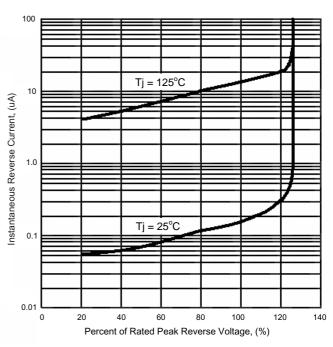


Fig.4 Typical Reverse Characteristics per Bridge Element