

MDB01G THRU MDB07G

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES:

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability

MECHANICAL DATA

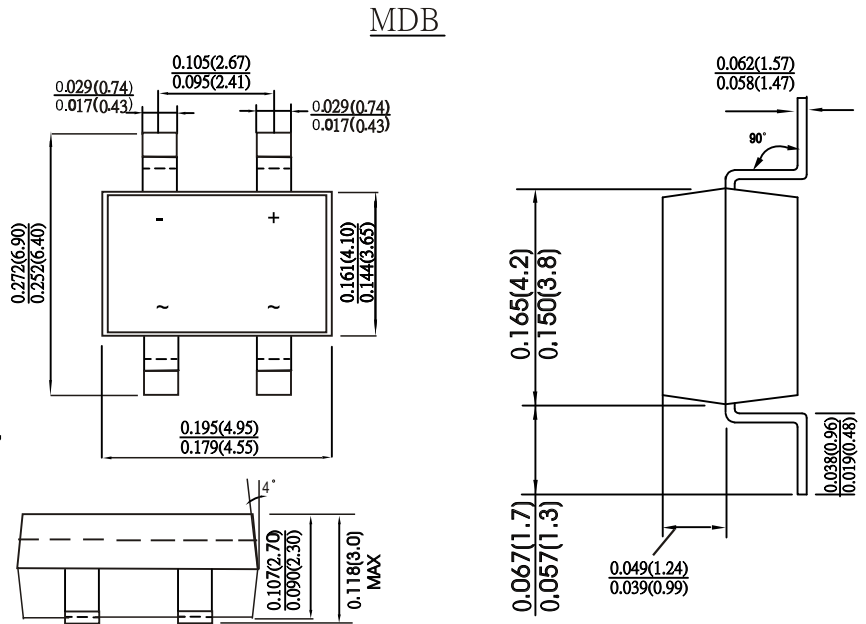
Case : Molded plastic MDB

Terminals : Plated terminals, solderable per MIL-STD-202,
Method 208

Polarity : Polarity symbols marked on body

Mounting Position : Any

Handling Precaution : None



Dimension in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temp. temperaturl unless otherwise specified.

Single phase, half sine, wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

CHARACTERISTIC	SYMBOL	MDB01G	MDB02G	MDB03G	MDB04G	MDB05G	MDB06G	MDB07G	UNITS
Maximum recurrent peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at Ta=40°C -on glass-epoxy P.C.B. -on aluminum substrate	IAV	0.5 0.8							Amps
Peak forward surge current 8.3mm single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	30							Amps
Maximum instantaneous forward voltage @0.5 A	VF	1.0							Volts
Maximum DC reverse current at rated DC blocking voltage Ta=25°C Ta=125°C	IR	5.0 500.0							μA
Operating junction ,and storage temperature range	TJ,TSTG	-55 to +150							°C

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

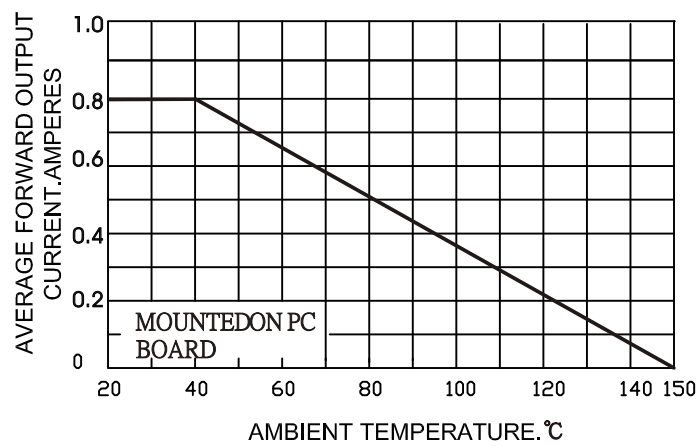


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

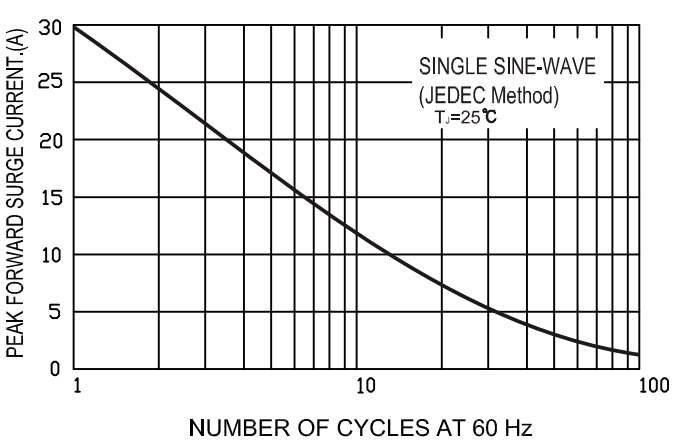


FIG.3-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

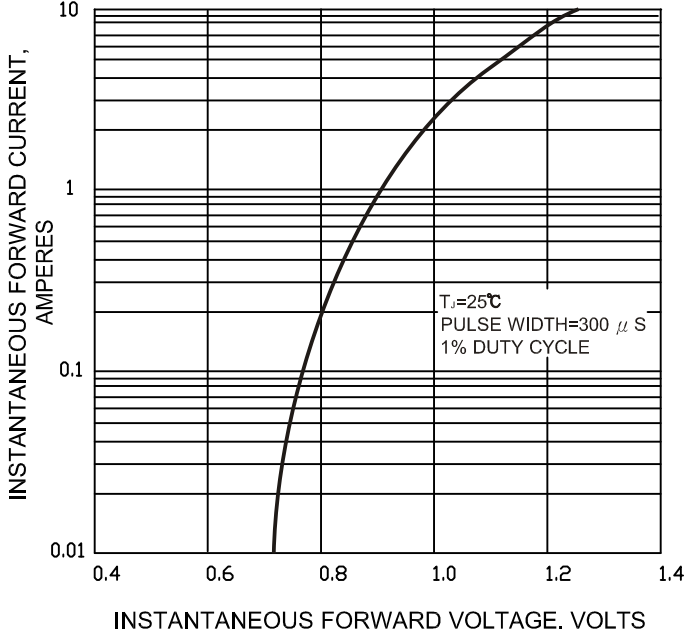


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

