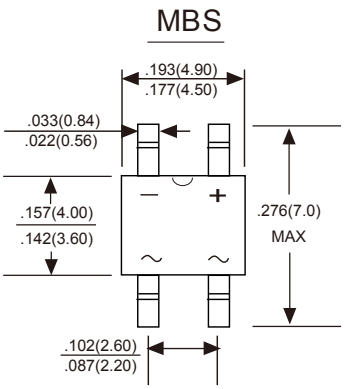
MB2S THRU MB10S

Surface Monut Bridge Rectifiers

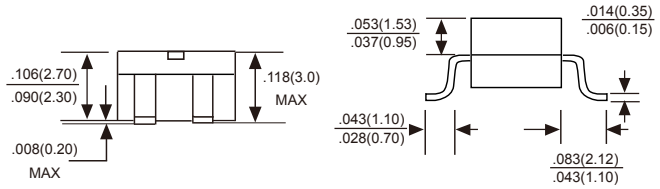
FEATURES

Ideal for printed circuit board
Reliable low cost construction utilizing molded plastic technique
High temperature soldering guaranteed: 260℃/10 seconds at 5 lbs., (2.3kg) tension
Small size, simple installation
High surge current capability
Glass passivated chip junction
Green compound(halogen&Sb_2O_3 free)



MECHANICAL DATA

Case: Molded plastic body
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
Polarity: Polarity symbols marked on case
Mounting Position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load, for capacitive load derate current by 20%.

	SYMBOLS	MB2S	MB4S	MB6S	MB8S	MB10S	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	V
Maximum average forward rectified current On glass-epoxy P.C.B. On aluminum substrate	$I_{F(AV)}$	0.5 0.8					A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30					A
Maximum instantaneous forward voltage drop per leg at 0.4A	V_F	1.0					V
Maximum DC reverse current T_A=25℃ at rated DC blocking voltage T_A=100℃	I_R	5 100					uA uA
Typical thermal resistance	$R\theta_{JL}$ $R\theta_{JA}$	28 85					℃/W
Operating temperature range	T_J	-55 to +150					℃
storage temperature range	T_{STG}	-55 to +150					℃

FIG.1 FORWARD DERATING CURVE

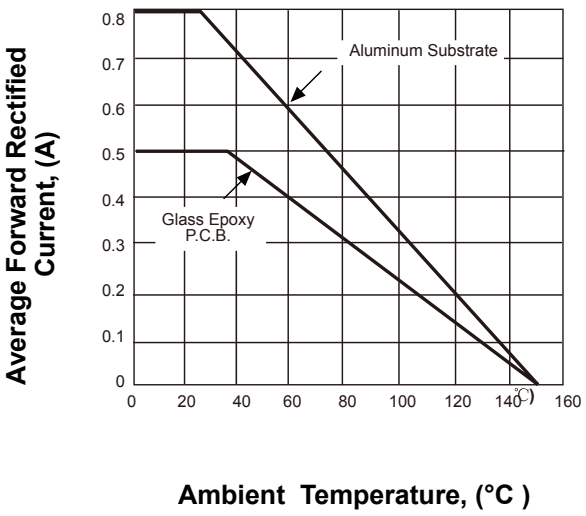


FIG.2 PEAK FORWARD SURGE CURRENT

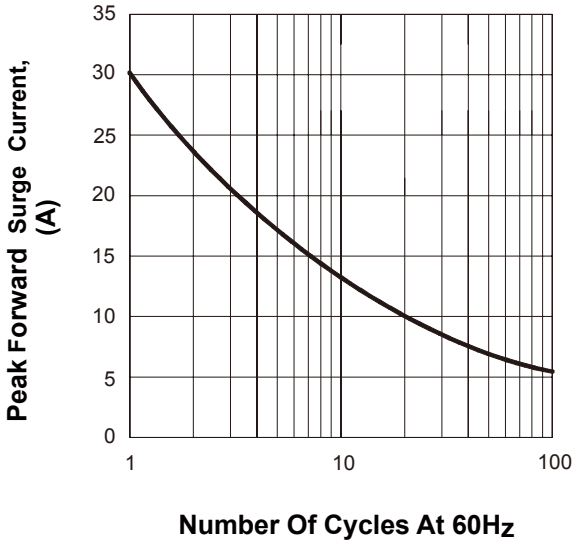


FIG.3 TYPICAL FORWARD CHARACTERISTICS

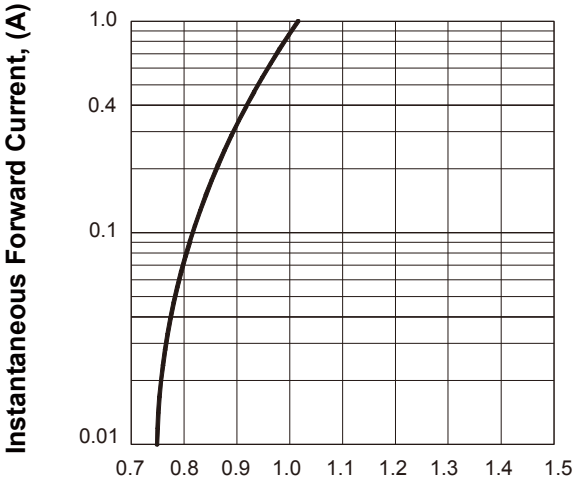


FIG.4 TYPICAL REVERSE CHARACTERISTICS