CANYU
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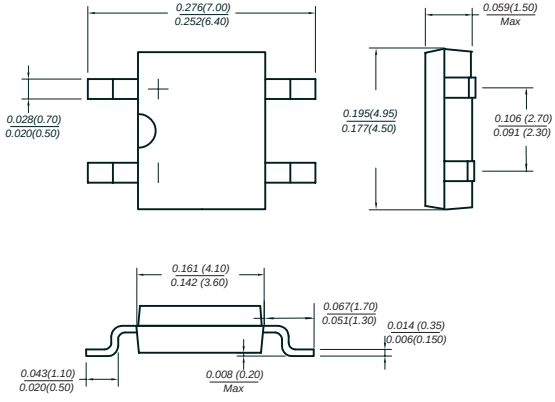
EMB2F THRU EMB8F

GLASS PASSIVATED SUPER FAST RECOVERY BRIDGE RECTIFIERS

Voltage Range - 200 to 600Volts Current -0.5/0.8 Ampere

MBF



Dimensions in inches and (millimeters)

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
- Leads solderable per MIL-STD-202, Method 208
- High surge current capability
- Super fast switching for high efficiency
- 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

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	EMB2F	EMB4F	EMB6F	EMB8F	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	100	200	400	600	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	V
Maximum DC blocking voltage	V_{DC}	100	200	400	600	V
Maximum average forward rectified current On glass-epoxy P.C.B.(Note1) On aluminum substrate(Note2)	$I_{F(AV)}$	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	0.95		1.25	1.7	V
Maximum DC reverse current T_A=25℃ at rated DC blocking voltage T_A=125℃	I_R	5.0 500				uA uA
Typical thermal resistance(NOTE 3)	$R\theta_{JL}$ $R\theta_{JA}$	30 88				℃/W
Maximum reverse recovery time (NOTE 4)	t_{rr}	35				ns
Operating temperature range	T_J	-55 to +150				℃
storage temperature range	T_{STG}	-55 to +150				℃

NOTES:1.On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads.
2.On aluminum substrate P.C.B. with an area of 0.8"x0.8"(20x20mm) mounted on 0.05X0.05"(1.3X1.3mm) solder pad.
3.Thermal resistance form junction to ambient and junction to lead mounted on P.C.B. with 0.2X0.2"(5X5mm) copper pads.
4.Reverse recovery condition I_F=0.5A, I_R=1.0A,Irr=0.25A.

RATINGS AND CHARACTERISTIC CURVES EMB2F THRU EMB8F

FIG.1 FORWARD DERATING CURVE

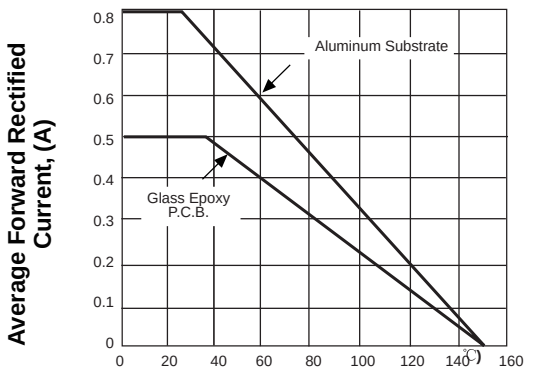


FIG.2 PEAK FORWARD SURGE CURRENT

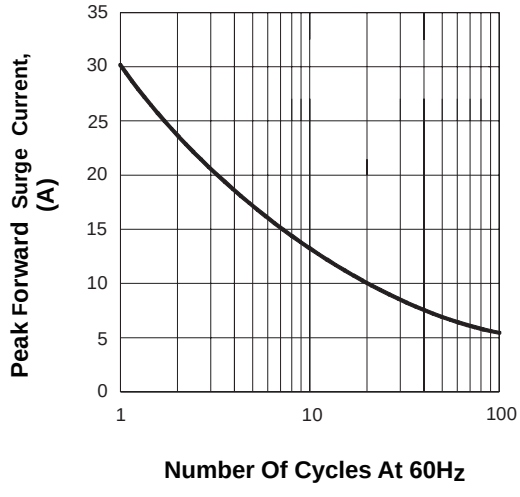


FIG.3 TYPICAL FORWARD CHARACTERISTICS

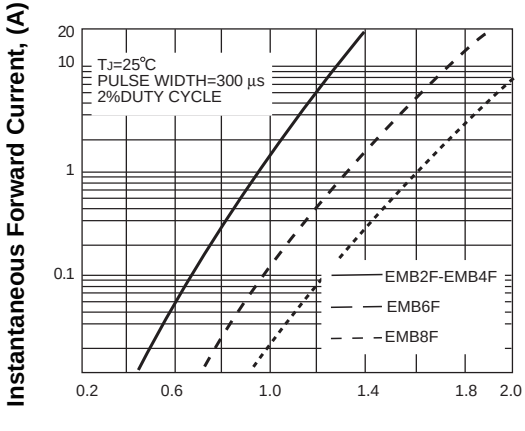


FIG.4 TYPICAL REVERSE CHARACTERISTICS