EMB2F THRU EMB8F

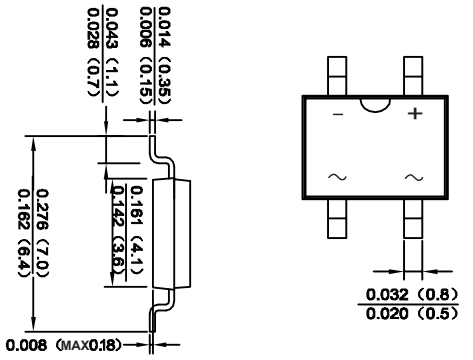
Voltage Range - 200 to 600 V olts Current - 0.5/0.8 Ampere

GLASS PASSIVATED SUPER FAST RECOVERY BRIDGE RECTIFIERS

Features

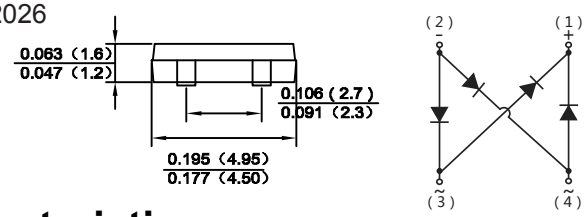
MBF RoHS COMPLIANT

- 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



Mechanical Data

Case : JEDEC MBF Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight : 0.0026 ounce, 0.075 grams



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unle ss otherwise specified.

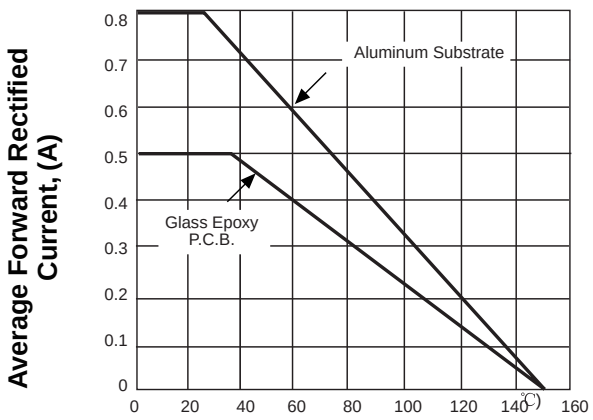
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter Marking Code	SYMBOLS	MDD EMB2F	MDD EMB4F	MDD EMB6F	MDD 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 (JEDEC Method)	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°C at rated DC blocking voltage T_A=100°C	I_R	5 500				uA
Typical thermal resistance(NOTE 3)	$R\theta_{JL}$ $R\theta_{JA}$	30 88				°C/W
Maximum reverse recovery time (NOTE 4)	trr	35				ns
Operating temperature range	T_J	-55 to +150				°C
storage temperature range	T_{STG}	-55 to +150				°C

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.

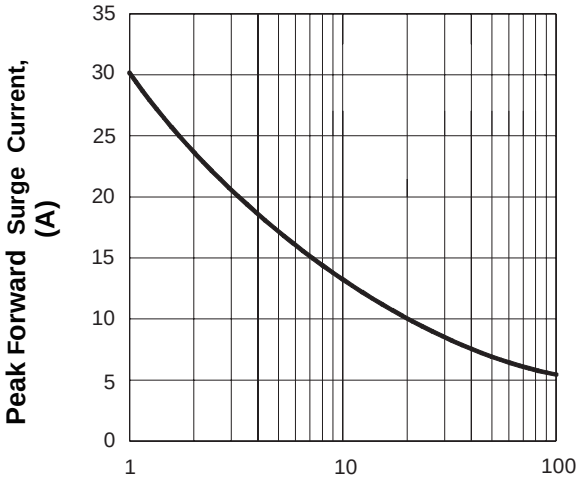
Ratings And Characteristic Curves

FIG.1 FORWARD DERATING CURVE



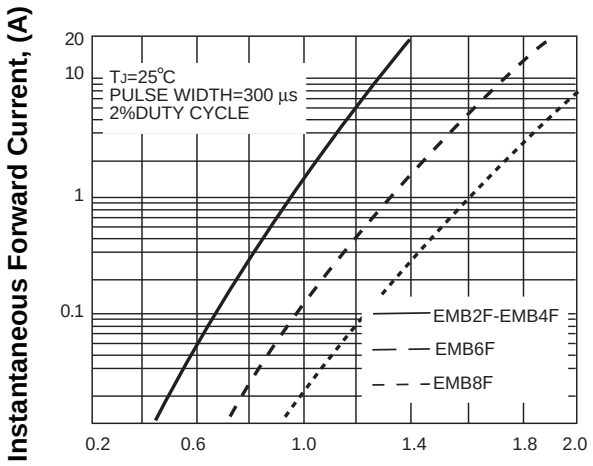
Ambient Temperature, (°C)

FIG.2 PEAK FORWARD SURGE CURRENT



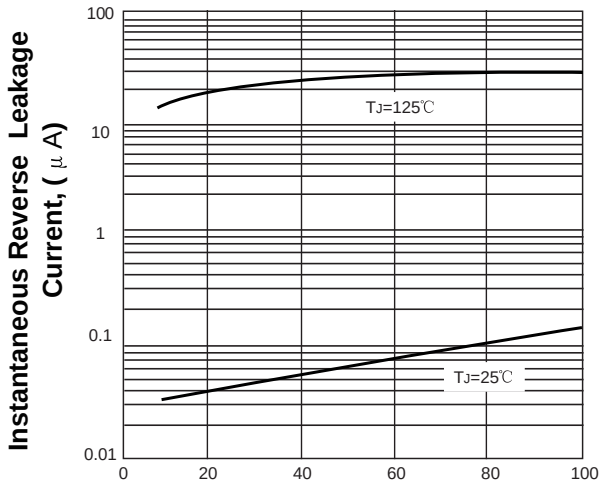
Number Of Cycles At 60Hz

FIG.3 TYPICAL FORWARD CHARACTERISTICS



Instantaneous Forward Voltage, (V)

FIG.4 TYPICAL REVERSE CHARACTERISTICS



Percent Of Rated Peak Reverse Voltage, %

The curve above is for reference only.