Downloaded from Alldatasheet.com

迪一電子®

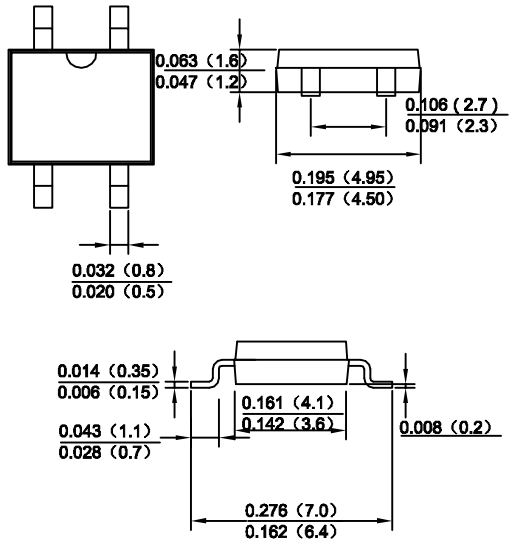
EMB1F THRU EMB6F

SINGLE PHASE 0.8AMP SUPER FAST GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

MBF



dimensions in inches and (millimeters)

Mechanical Data

- Case: MB-F, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- Lead Free: For RoHS / Lead Free Version,

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.
Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	EMB1F	EMB2F	EMB3F	EMB4F	EMB6F	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{DC}	100	200	300	400	600	V
RMS Reverse Voltage	V_{RMS}	70	140	210	280	420	V
Average Rectified Output Current (Note 1)@T_A=40℃ (Note 2)@T_A=40℃	I_O	0.5 0.8					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30					A
Forward Voltage per element @IF=0.8A	V_{FM}	0.95		1.25		1.7	V
Peak Reverse Current @T_A=25℃ At Rated DC Blocking Voltage @T_A=125℃	I_R	5.0 500					uA
Maximum reverse recovery time (Note 3)	T_{RR}	35					nS
Typical Junction Capacitance per leg (Note4)	C_J	25					pF
Typical Thermal Resistance per leg	$R_{\theta JA}$ $R_{\theta JL}$	60 16					℃/W
Operating and Storage Temperature Range	T_J,T_{STG}	-55to+150					℃

Note:1. Mounted on glass epoxy PC board with 1.3mm^2 solder pad.
2. Mounted on aluminum substrate PC board with 1.3mm^2 solder pad.
3. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
4. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

Downloaded from Alldatasheet.com

EMB1F THRU EMB6F

Fig. 1 Output Current Derating Curve

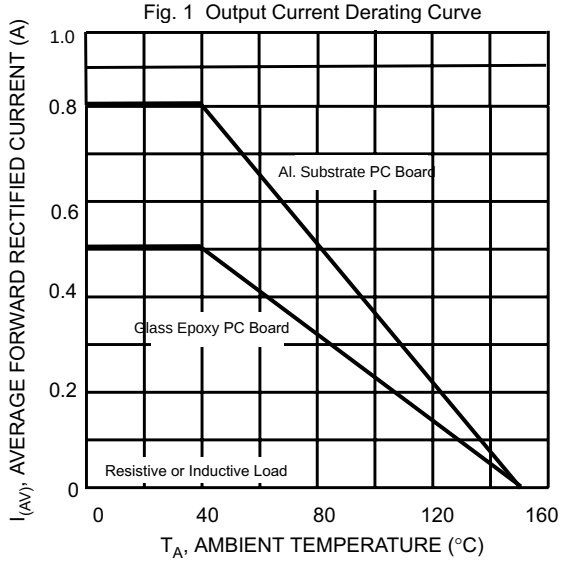


Fig. 2 Typical Forward Characteristics (per leg)

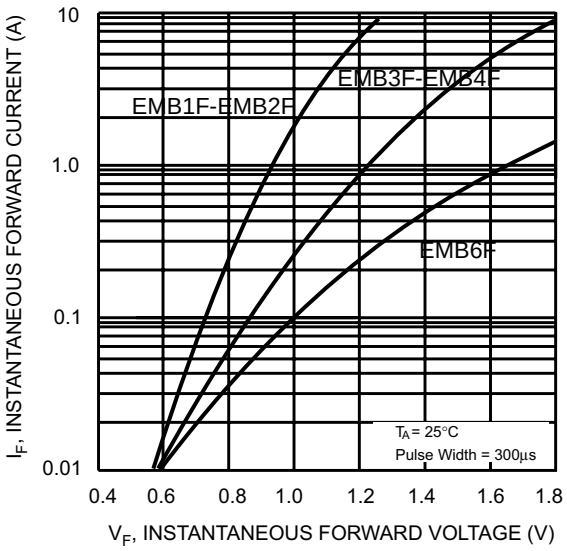


Fig. 3 Maximum Peak Forward Surge Current (per leg)

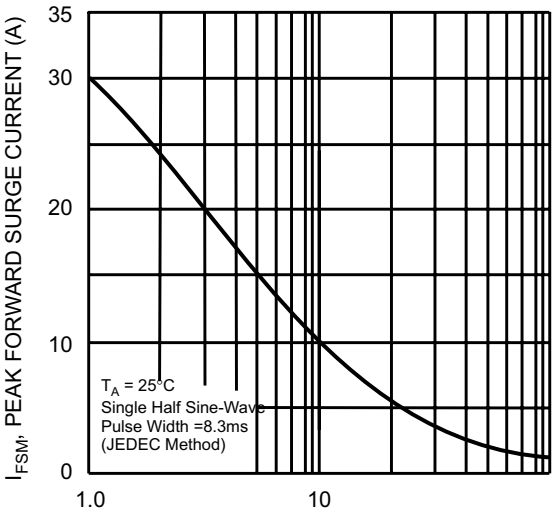


Fig. 4 Typical Junction Capacitance

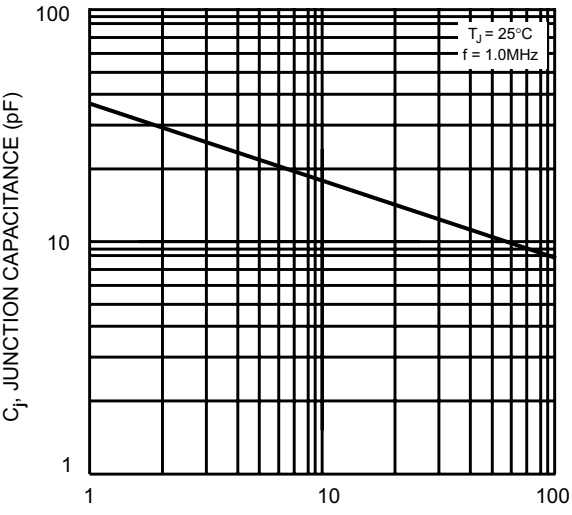


FIG.5 TYPICAL REVERSE CHRACTERISTICS

