



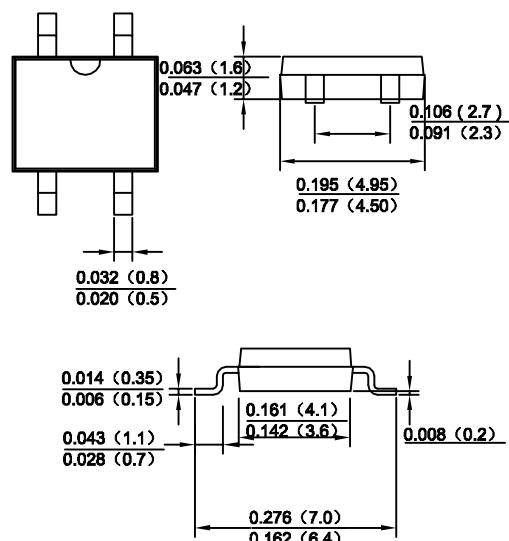
EMB1FU THRU EMB6FU

SINGLE PHASE 1.0AMP 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)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	EMB1FU	EMB2FU	EMB3FU	EMB4FU	EMB6FU	UNITS		
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM}	100	200	300	400	600	V		
	V _{RWM}								
	V _{DC}								
RMS Reverse Voltage	V _{RMS}	70	140	210	280	420	V		
Maximum average forward rectified current @ T _A =40 °C	I _o	1.0					A		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	35					A		
Forward Voltage per element @ I _F =1.0A	V _{FM}	0.95		1.25		1.7	V		
Peak Reverse Current @ T _A =25 °C At Rated DC Blocking Voltage @ T _A =125 °C	I _R	5.0 500					uA		
Maximum reverse recovery time (Note 1)	T _{RR}	35					nS		
Typical Junction Capacitance per leg	C _J	25					pF		
Typical Thermal Resistance per leg (Note 2)	R _{θJA}	60					°C/W		
	R _{θJL}	16							
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150					°C		

Note:1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

2.Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B
with 0.5×0.5"(13×13mm)copper pads.

