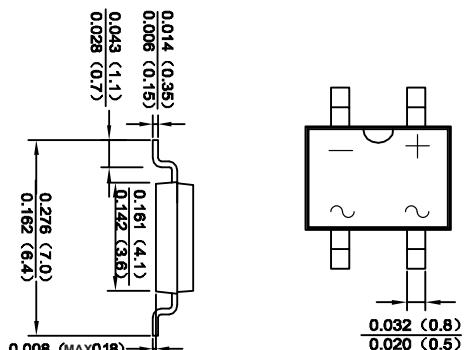


SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

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

**RoHS
COMPLIANT**


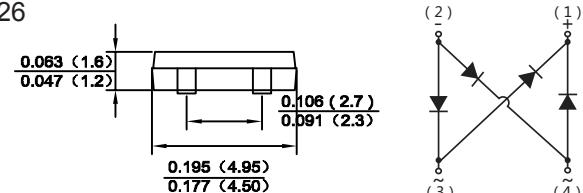
Mechanical Data

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


Maximum Ratings And Electrical Characteristics

Dimensions in inches and (millimeters)

Ratings at 25 °C ambient temperature unless otherwise specified.

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

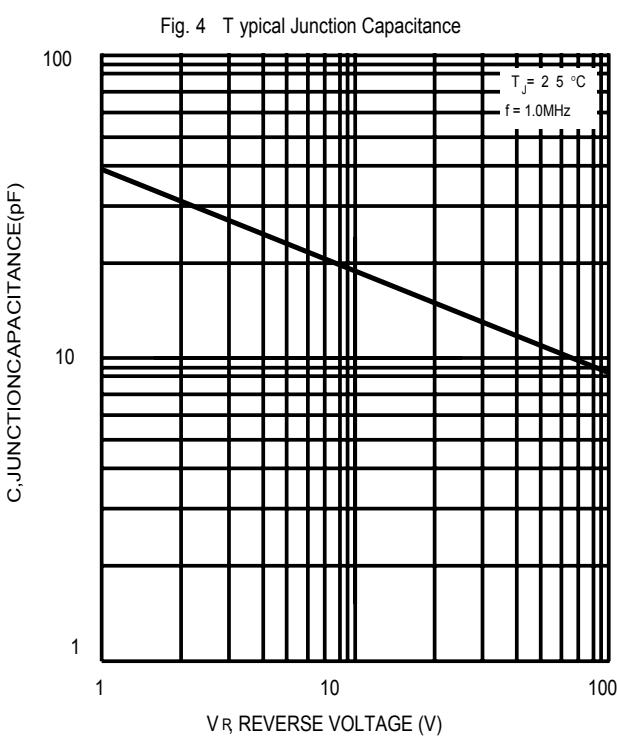
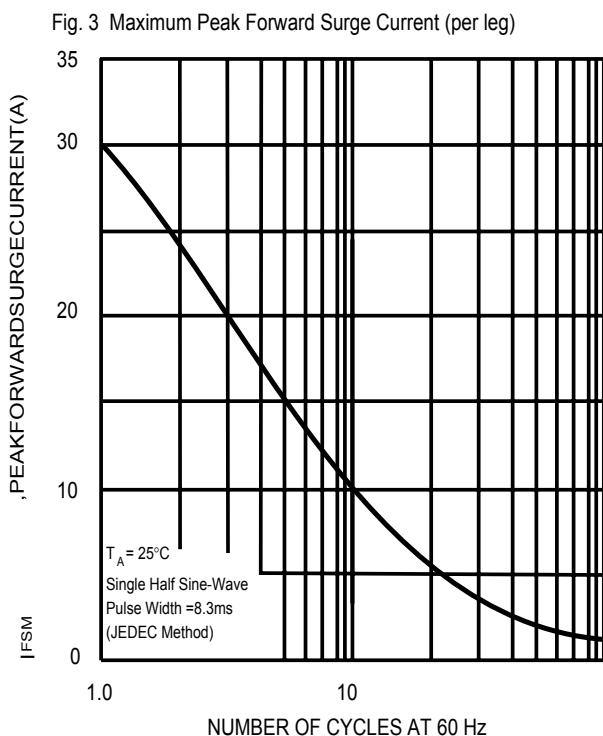
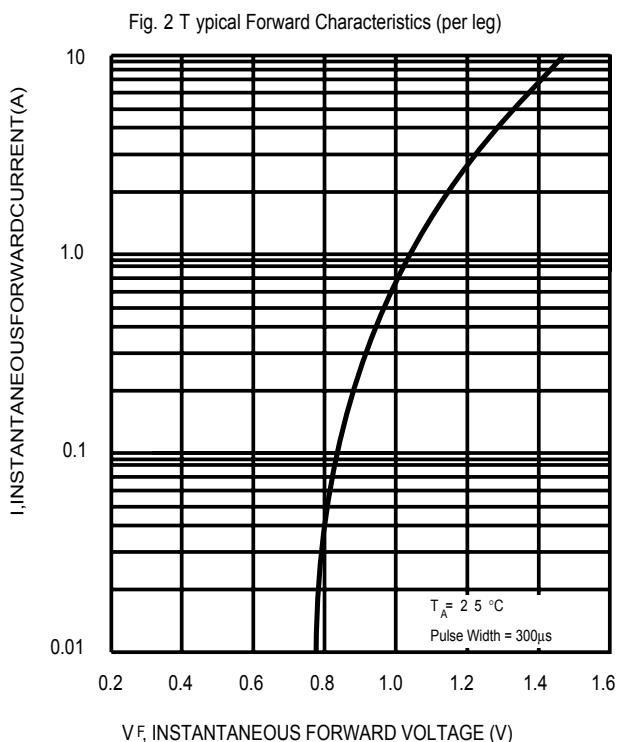
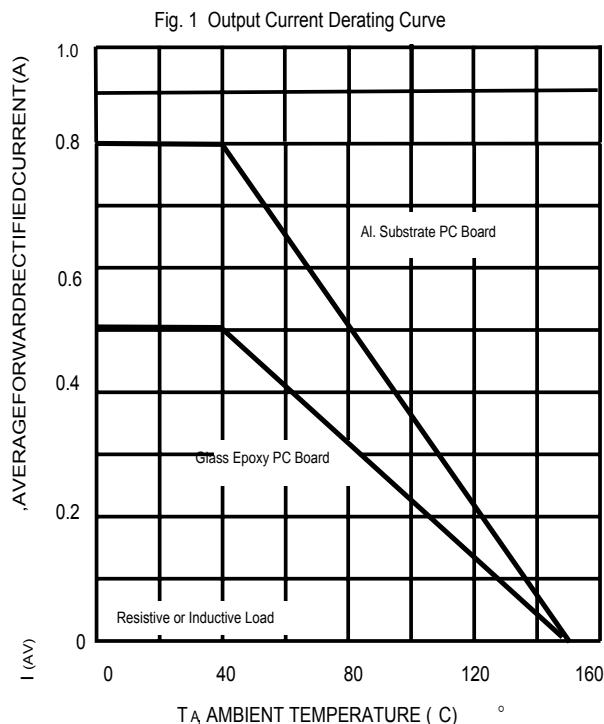
Parameter	SYMBOLS	MB05	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	UNITS
Marking Code									
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	140	140	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at T _c =30°C On glass-epoxy P.C.B. On aluminum substrate	I _{F(AV)}				0.5				A
0.8									
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 1A	V _F			1.1					V
Maximum DC reverse current at rated DC blocking voltage	I _R	T _A =25°C T _A =100°C			5 500				uA
Typical junction capacitance	C _J	NOTE3			13				pF
Typical thermal resistance	R _{θJA}				60				°C/W
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

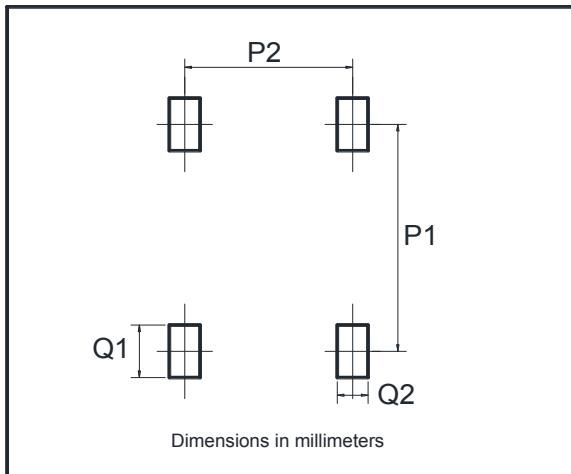
2.On aluminum substrate P.C.B. with an area of 0.8"x0.8"(20x20mm) mounted on 0.05x0.05"(1.3x1.3mm) solder pad

3.Measured at 1.0MHz and applied reverse voltage of 4.0 volts.

Ratings And Characteristic Curves



The curve above is for reference only.

Suggested Pad Layout

Dim	Min
P1	6.00
P2	2.40
Q1	1.84
Q2	1.20