MB2F THRU MB10F

Voltage Range - 200 to 1000 Volts Current - 1.0 Ampere

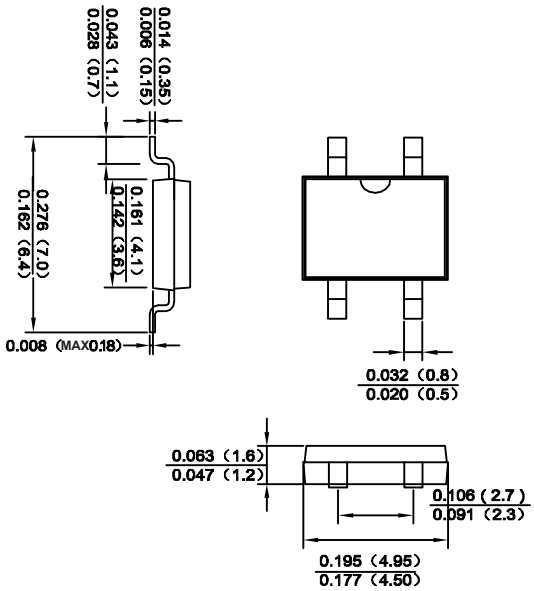
SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

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



Dimensions in inches and (millimeters)

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

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	SYMBOLS	MB2F	MB4F	MB6F	MB8F	MB10F	UNITS
Marking Code		MDD MB2F	MDD MB4F	MDD MB6F	MDD MB8F	MDD MB10F	
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	V
Maximum average forward rectified current at T_C=125°C	$I_{F(AV)}$	1.0					A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	35					A
Maximum instantaneous forward voltage drop per leg at 1A	V_F	1.1					V
Maximum DC reverse current T_A=25℃ at rated DC blocking voltage T_A=100℃	I_R	5 500					uA uA
Typical junction capacitance	C_J	13					pF
Typical thermal resistance	$R_{\theta JA}$	60					°C/W
Operating temperature range	T_J	-55 to +150					°C
storage temperature range	T_{STG}	-55 to +150					°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

Ratings And Characteristic Curves

Fig. 1 Output Current Derating Curve

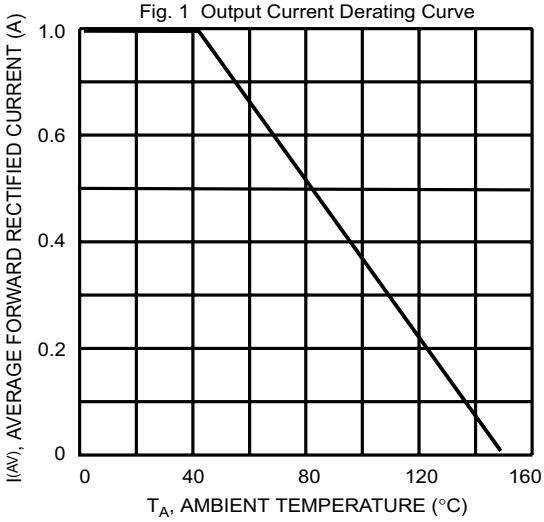


Fig. 2 Typical Forward Characteristics (per leg)

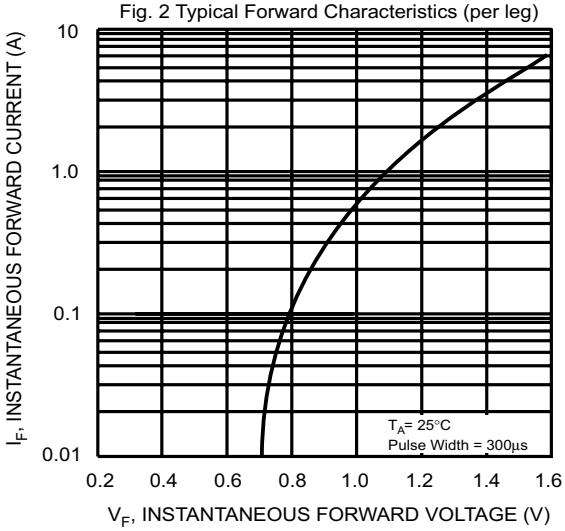


Fig. 3 Maximum Peak Forward Surge Current (per leg)

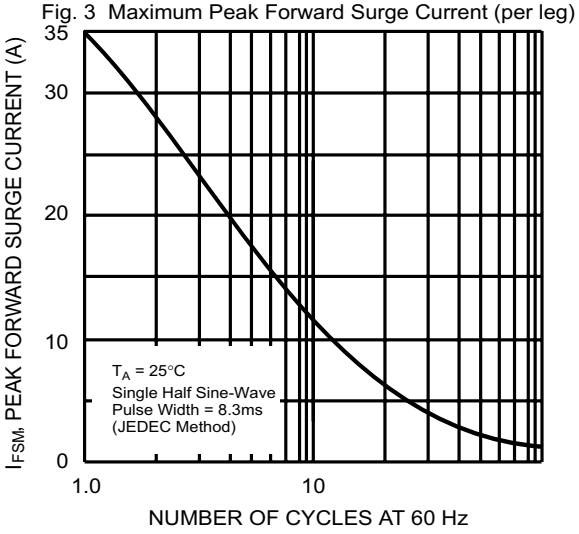


Fig. 4 Typical Junction Capacitance

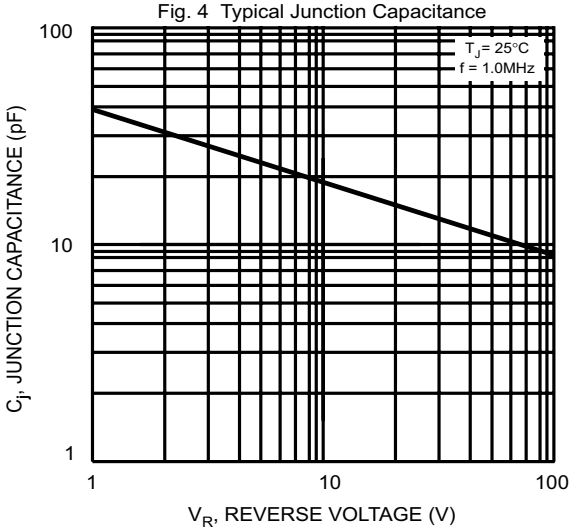
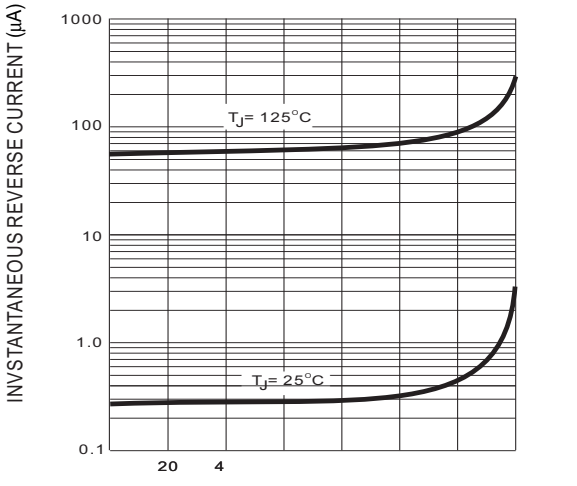


FIG.5 TYPICAL REVERSE CHRACTERISTICS



The curve above is for reference only.