

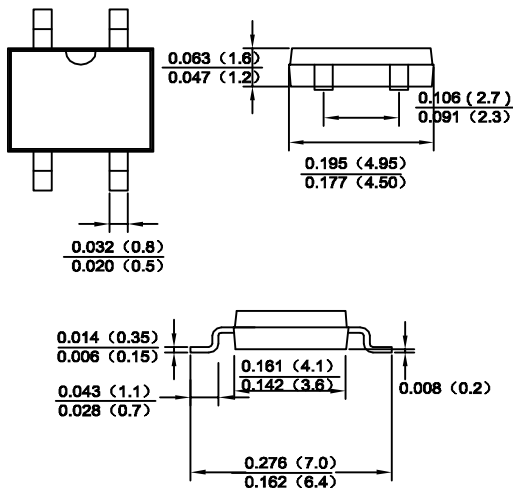


MB2F THRU MB10F

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 200 to 1000 Volts Current - 0.5/0.8 Ampere

MBF



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

MECHANICAL DATA

Case: MBF, molded plastic
Terminals: Plated leads solderable per MIL-STD-750, Method 2026
Polarity: Polarity symbols marked on case
Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

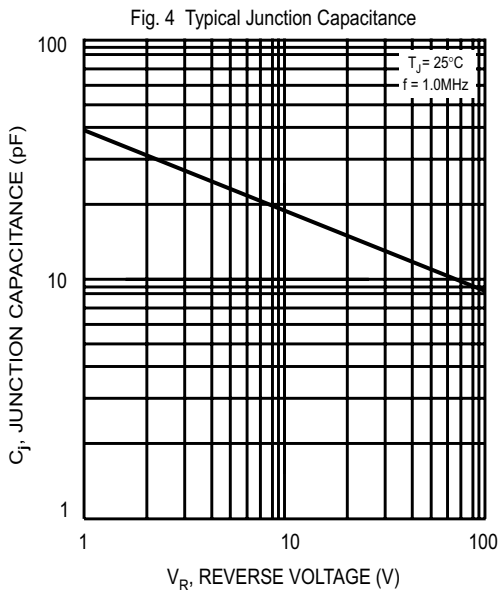
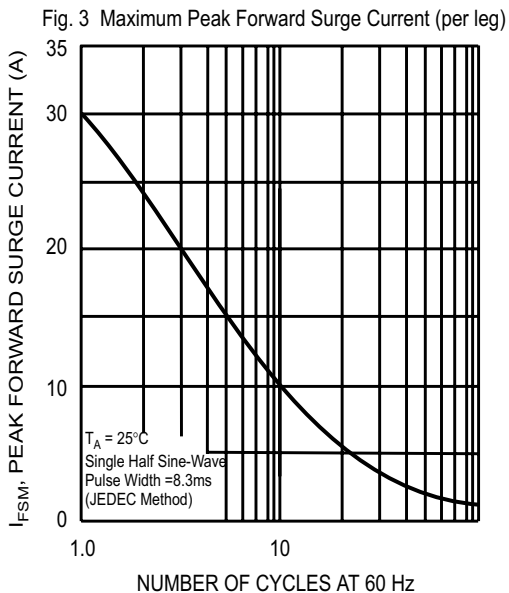
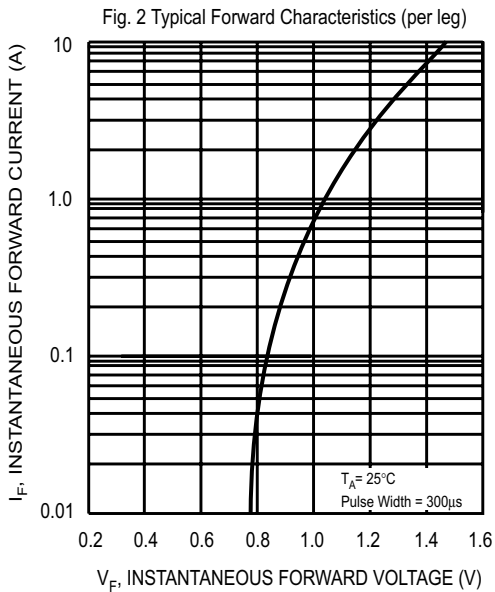
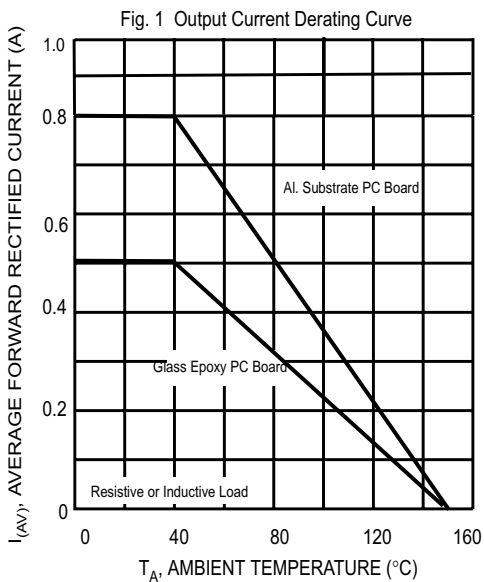
MDD Catalog Number	SYMBOLS	MDD MB2F	MDD MB4F	MDD MB6F	MDD MB8F	MDD MB10F	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V_{RMS}	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at $T_c=30^\circ C$ On glass-epoxy P.C.B. On aluminum substrate	$I_{F(AV)}$	0.5 0.8					Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30					Amps
Maximum instantaneous forward voltage drop per leg at 0.5A	V_F	1.1					Volts
Maximum DC reverse current $T_J=25^\circ C$ at rated DC blocking voltage $T_J=125^\circ C$	I_R	5.0 500					μA μA
Typical junction capacitance per leg (Note3)	C_J	13					pF
Typical thermal resistance per leg	$R_{\theta JA}$	60					$^\circ C/W$
Operating temperature range	T_J	-55 to +150					$^\circ C$
storage temperature range	T_{STG}	-55 to +150					$^\circ C$

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 on 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.



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RATINGS AND CHARACTERISTIC CURVES MB2F THRU MB10F



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

