

MBRF1040~MBRF10200

10 AMPERES SCHOTTKY BARRIER RECTIFIERS

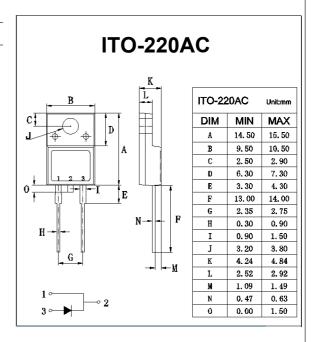
VOLTAGE	40 to 200 Volts
CURRENT	10 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
 Flame Retardant Epoxy Molding Compound.
- · Low power loss, high efficiency.
- · High current capability
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- · Lead free in compliance with EU RoHS .

MECHANICAL DATA

- · Case: ITO-220AC molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

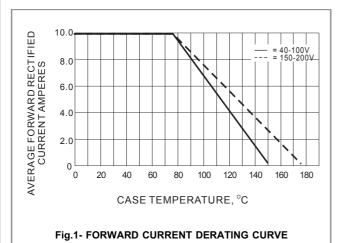
For capacitive load, derate current by 20%

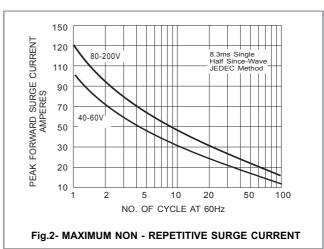
PARAMETER	SYMBOL	MBRF1040	MBRF1045	MBRF1050	MBRF1060	MBRF1080	MBRF1090	MBRF10100	MBRF10150	MBRF10200	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	٧
Maximum RMS Voltage	V _{RMS}	28	31.5	35	42	56	63	70	105	140	٧
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward (See Figure 1)	I _{F(AV)}	10									Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	100 120								А	
Maximum Forward Voltage at 10A	V _F	0.7 0.8			0.85			0.92		٧	
Maximum DC Reverse Current at Rated DC Blocking T_J =25°C Voltage T_J =100°C	I _R	0.1 20									mA
Typical Thermal Resistance	R _{eJC}	3									°C / W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150 -65 to +175								o +175	°C

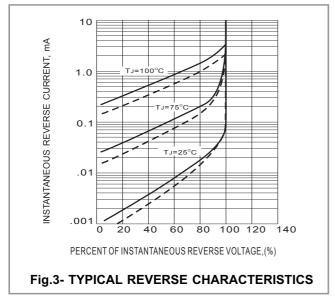


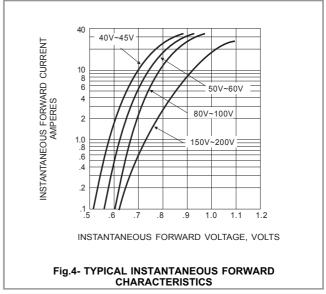
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RATING AND CHARACTERISTIC CURVES









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