

MBRF1040CTD~MBRF10200CTD

10 AMPERES SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 40 to 200 Volts

CURRENT

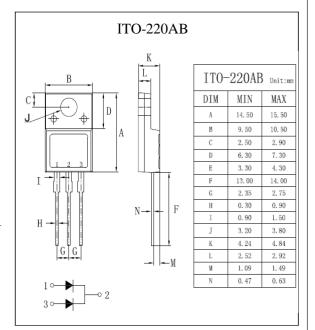
10 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
 Flame Retardant Epoxy Molding Compound.
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- High current capability
- Guardring for overvlotage protection
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- Lead free in comply with EU RoHS.

MECHANICAL DATA

- Case: ITO-220AB molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

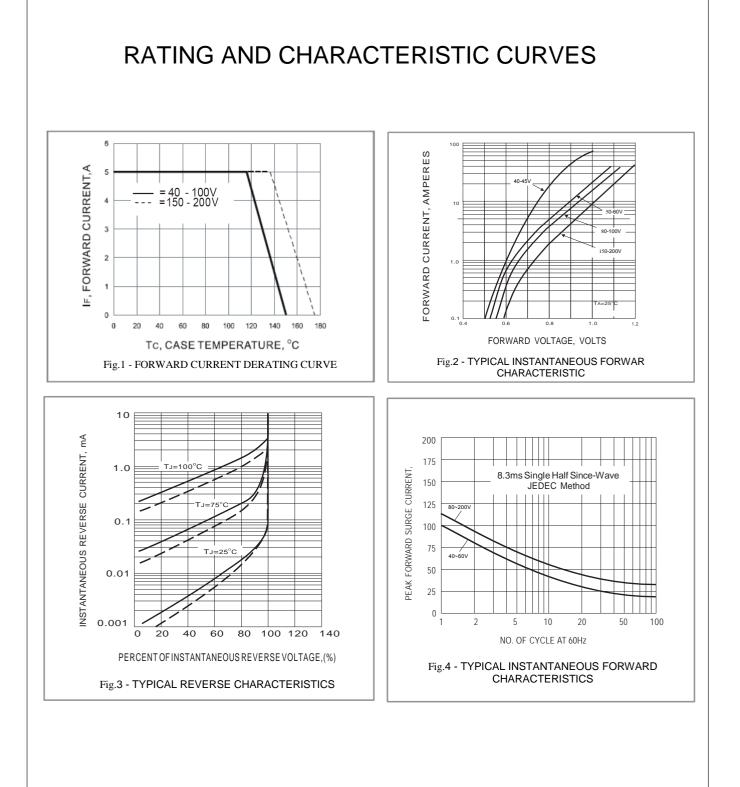
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBRF 1040CTD	MBRF 1045CTD	MBRF 1050CTD	MBRF 1060CTD	MBRF 1080CTD	MBRF 1090CTD	MBRF 10100CTD	MBRF 10150CTD	MBRF 10200CTD	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	Vrms	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	VDC	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See fig.1)	IF(AV)	10							А		
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load (JEDEC method)	Ifsm	100 110							А		
Maximum Forward Voltage at 5A, per leg	VF	0.7 0.8			.8	0.85			0.92		V
Maximum DC Reverse Current at Rated DC T=25°C Blocking Voltage T=125°C	IR		0.05 0.02 20 20							mA	
Typical Thermal Resistance	R⊛jc	3							°C / W		
Operating and Storage Junction Temperature Range	Тј,Тѕтс	-55 to + 150 -55 to + 175								°C	



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