

MBRF2040CTD~MBRF20200CTD

20 AMPERES SCHOTTKY BARRIER RECTIFIERS

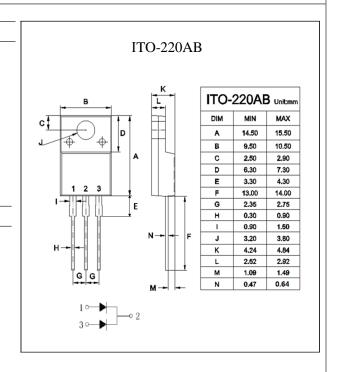
VOLTAGE	40 to 200 Volts						
CURRENT	20 Amperes						

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
- 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 2040CTD	MBRF 2045CTD	MBRF 2050CTD	MBRF 2060CTD	MBRF 2080CTD	MBRF 2090CTD	MBRF 20100CTD	MBRF 20150CTD	MBRF 20200CTD	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	V
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 Current (See fig.1)	I _{F(AV)}	20								А	
Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load(JEDEC method)	I _{FSM}	150								А	
Maximum Forward Voltage at 10A, per leg	V _F	0.65 0.8			0.85			0.90		V	
Maximum DC Reverse Current T _J =25 °C at Rated DC Blocking Voltage T _J =125 °C	I _R	0.02 20 0.02 20							mA		
Typical Thermal Resistance	R _{eJC}	2								°C / W	
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-50 to + 150 -55 to +175						5 to +175	°C		
Junction Capaitance (Notel)	Cı	70	00	500)		400		300	250	pF

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc;



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RATING AND CHARACTERISTIC CURVES

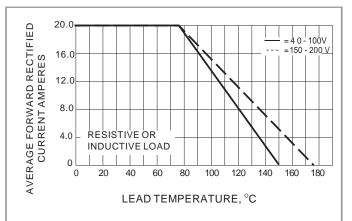


Fig.1- FORWARD CURRENT DERATING CURVE

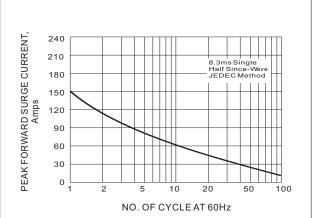


Fig.2- MAXIMUM NON - REPETITIVE SURGE **CURRENT**

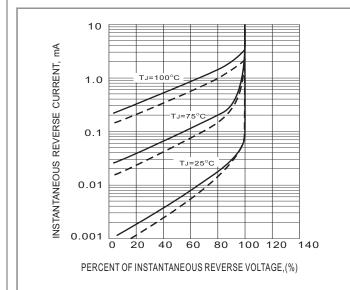
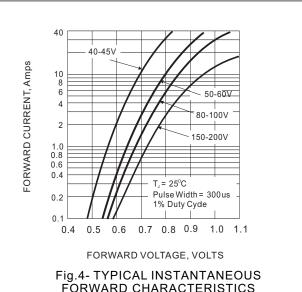


Fig.3- TYPICAL REVERSE CHARACTERISTICS



FORWARD CHARACTERISTICS

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