# 

## MBRF2040CTD~MBRF20200CTD

### **20 AMPERES SCHOTTKY BARRIER RECTIFIERS**

### VOLTAGE 40

CURRENT

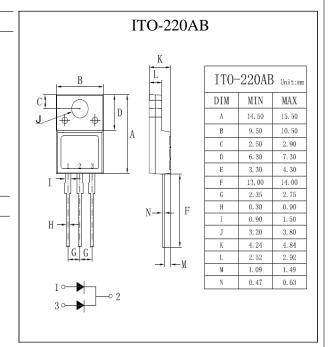
40 to 200 Volts 20 Amperes

#### 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

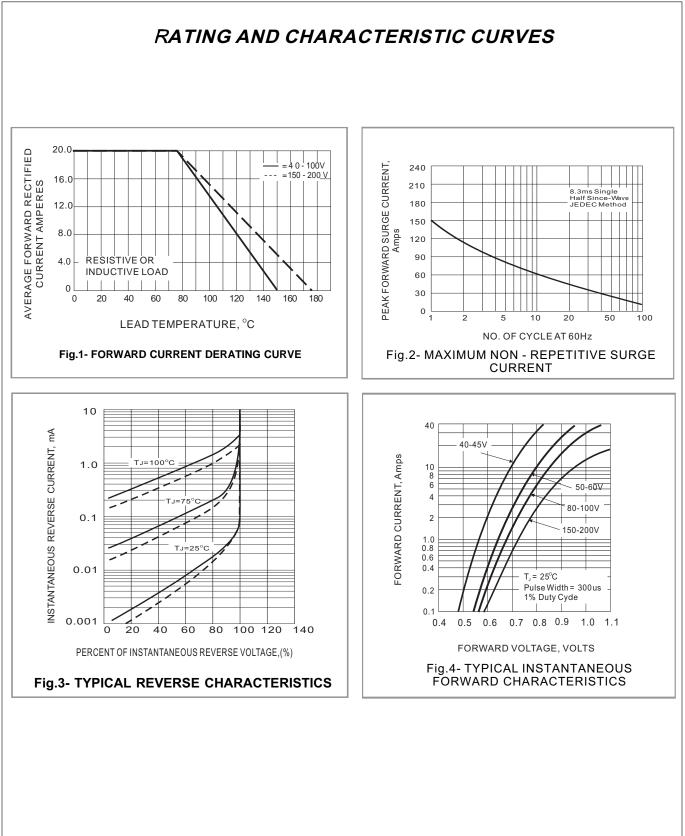


#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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 <sub>rrm</sub>	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V <sub>rms</sub>	28	31.5	35	42	56	63	70	105	140	v
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	45	50	60	80	90	100	150	200	v
Maximum Average Forward Current (See fig.1)	I <sub>F(AV)</sub>	20									A
Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load(JEDEC method)	I <sub>fsm</sub>	150									A
Maximum Forward Voltage at 10A, per leg	V <sub>F</sub>	0	.7	0.8		0.85			0.92		v
Maximum DC Reverse Current T <sub>j</sub> =25 °C at Rated DC Blocking Voltage T <sub>j</sub> =125°C	I <sub>R</sub>	0.05 0.02 20 20							mA		
Typical Thermal Resistance	R <sub>ejc</sub>	2									°C / W
Operating Junction and Storage Temperature Range	Tj,Tstg	-50 to + 150 -55 to +175									°C









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