₽ 迪一電子[®]

MBR2040CTD~MBR20200CTD

20 AMPERES SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 40 to 200 Volts

CURRENT 20 Amperes

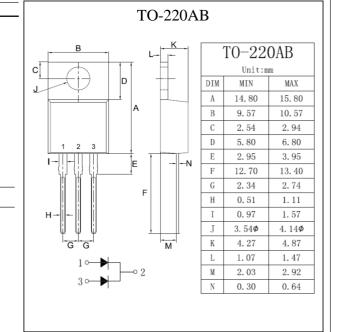
20 Amperes

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: TO-220AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- Mounting Position: Any



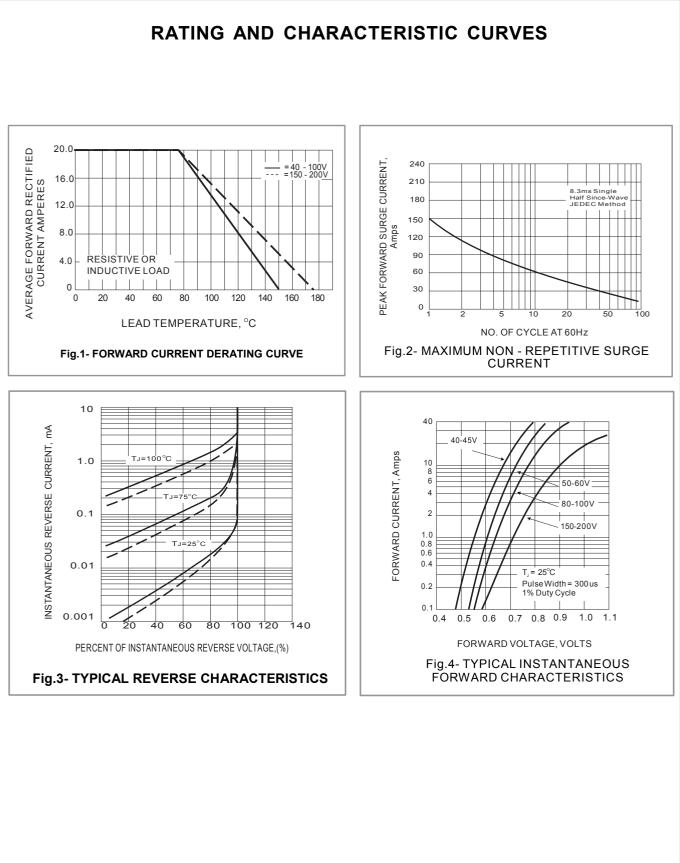
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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	MBR 2040CTD	MBR 2045CTD	MBR 2050CTD	MBR 2060CTD	MBR 2080CTD	MBR 2090CTD	MBR 20100CTD	MBR 20150CTD	MBR 20200CTD	UNITS
Maximum Recurrent P e a k Reverse V o I t a g	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	V
Maximum DC Blocking Voltage	V _{dc}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See fig.1)	l F(AV)	20								А	
Peak Forward Surge Current :8.3ms single half si ne- wave superimposed on rated load(JEDEC	l fsm	150A									А
th d) Maximum Forward Voltage at 10A, per leg	VF	0.7		0.8		0.85		0.92		v	
Maximum DC Reverse Current T,=25 °C at Rated DC Blocking Voltage T,=125°C	lr	0.05 20									mA
Typical Thermal Resistance	R	2								°C / W	
Operating Junction and Storage Temperature Range	T,T _{stg}	-50 to + 150 -55 to +175							175	°C	



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