

MBR1640CTD~MBR16200CTD

16 AMPERES SCHOTTKY BARRIER RECTIFIERS

VOLTAGE	40 to 200 Volts
CURRENT	16 Amperes

FEATURES

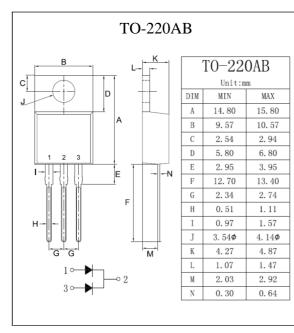
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
 Flame Retardant Epoxy Molding Compound.
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- High current capability
- Guardring for overvlotage protection
- For use in low voltage,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

MECHANICAL DATA

• Case: 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

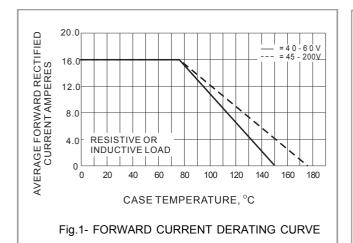
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

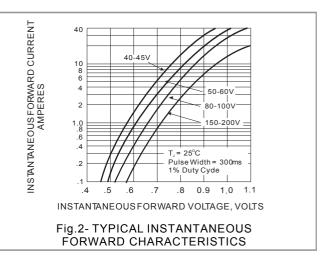
PARAMETER	SYMBOL	MBR 1640CTD	MBR 1645CTD	MBR 1650CTD	MBR 1660CTD	MBR 1680CTD	MBR 1690CTD	MBR 16100CTD	MBR 16150CTD	MBR 16200CTD	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V _{RMS}	28	31.5	35	42	56	63	70	105	140	٧
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	٧
Maximum Average Forward (See Figure 1)	I _{F(AV)}	16								А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	120								A	
Maximum Forward Voltage at 8A per leg	V _F	0	.7	0.8			0.85			0.92	
Maximum DC Reverse Current at Rated DC Blocking T_j =25°C Voltag T_j =100°C	I _R	0.05 20 0.02 20 20							mA		
Typical Thermal Resistance	R _{eJC}	2									°C / W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-5 5 to +1 50 -65 to +175								°C	

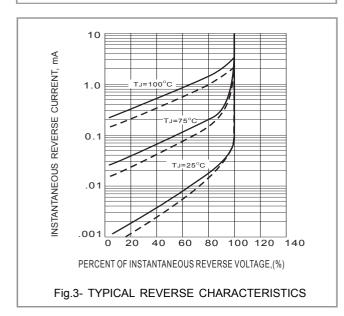


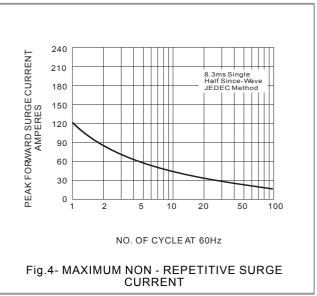
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RATING AND CHARACTERISTIC CURVES











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