

MBR10100CT

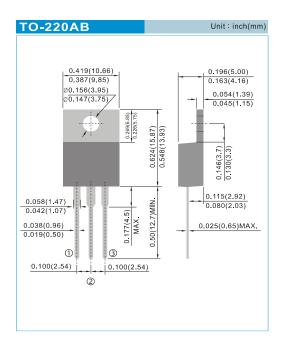
10 AMPERES SCHOTTKY BARRIER RECTIFIERS

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 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 2011/65/EU directives

MECHANICAL DATA

- · Case: TO-220AB molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.Mounting Position: Any
- · Weight: 0.0655 ounces, 1.86 grams.



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	MBR10100CT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	100	V
Maximum RMS Voltage	VRMS	70	V
Maximum DC Blocking Voltage	VDC	100	V
Maximum Average Forward Current (See fig.1)	İ F(AV)	10	A
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load (JEDEC method)	IFSM	150	А
Maximum Forward Voltage at 5A, per leg	VF	0.8	V
Maximum DC Reverse Current at Rated DC $T_J=25^{\circ}C$ Blocking Voltage $T_J=125^{\circ}C$	lr	10 100	μд
Typical Thermal Resistance	Rejc	2	°C / W
Operating and Storage Junction Temperature Range	Т _Ј ,Тѕтс	-65 to + 175	°C

Notes:

Both Bonding and Chip structure are available.



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RATING AND CHARACTERISTIC CURVES

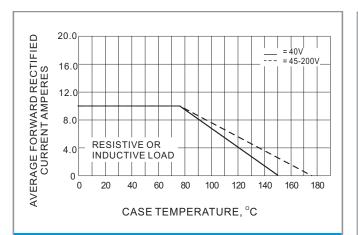


Fig.1- FORWARD CURRENT DERATING CURVE

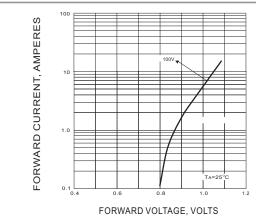


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

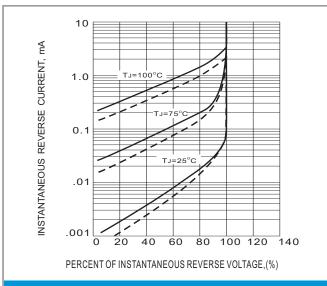


Fig.3- TYPICAL REVERSE CHARACTERISTICS

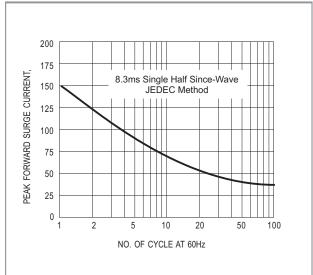


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS