

MBR1540CT~MBR15200CT

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15 AMPERES SCHOTTKY BARRIER RECTIFIERS

Voltage	40 to 200 Volts	Current	15 Amperes
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Features

Plastic package has underwriters laboratory

Flammability classification 94v-O.

Flame retardant epoxy molding compound.

- Metal silicon junction, majority carrier condition.
- Low power loss, high efficiency.
- High current capability
- Guarding for over voltage protection
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.
- ♦ In compliance with EU ROHS 2002/95/EC directives.
- ♦ Case:TO-220C



DRAWING

Maximum ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

PARAMETER		MBR 1540CT	MBR 1545CT	MBR 1550CT	MBR 1560CT	MBR 15100CT	MBR 15150CT	MBR 15200CT	Units
Maximum Recurrent Peak Reverse Voltage		40	45	50	60	100	150	200	V
Maximum RMS Voltage		40	45	50	60	100	150	200	V
Maximum DC Blocking Voltage		40	45	50	60	100	150	200	V
Maximum Average Forward Current		15							А
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load (JEDEC method)		120							A
Maximum Forward Voltage at 7.5A,per leg		().7	0.	75	0.8	0	.9	V
Macimum DC Reverse Current TJ=25°C at Rated DC Blocking Voltage TJ=125°C		0.2 50							mA
Typical Thermal Resistance		2							°C/W
Operating Junction and Storage Temperature Range		-50 to +150 -65 to +175							$^{\circ}$



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Typical Characteristics

RATING AND CHARACTERISTIC CURVES

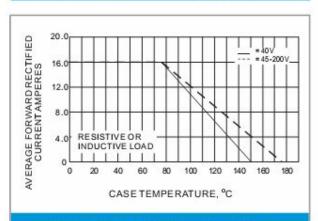


Fig.1- FORWARD CURRENT DERATING CURVE

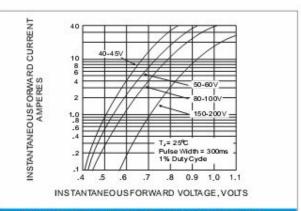
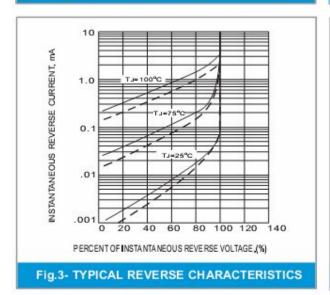
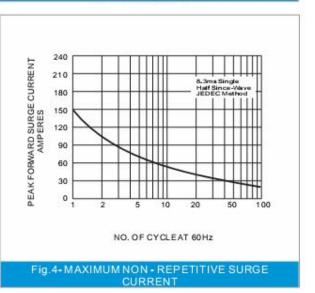


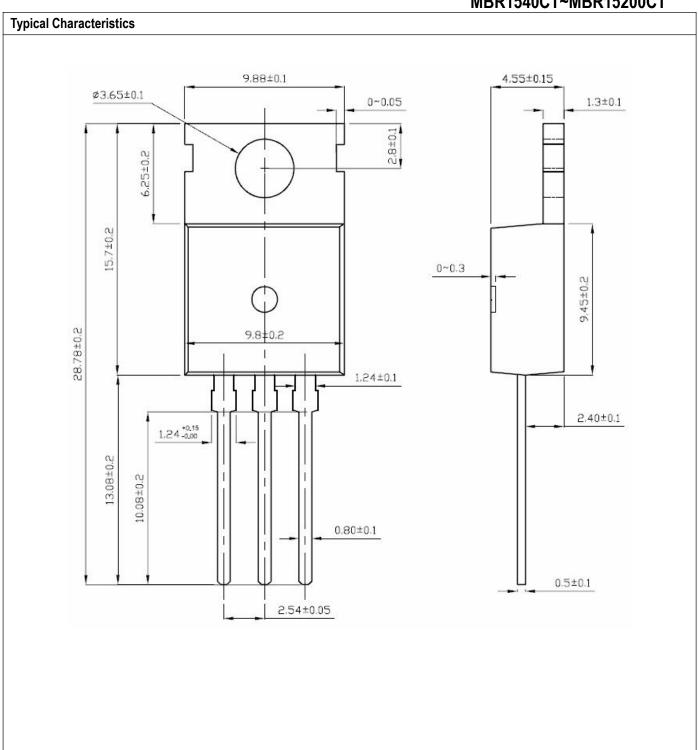
Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS







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