

MBR1040CT~MBR10200CT

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10 AMPERES SCHOTTKY BARRIER RECTIFIERS

Voltage 40 to 200 Volts Current 10 Amperes	
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Features

- Plastic package has underwriters laboratory flammability classification 94v-0.
 Flame retardant epoxy molding compound.
- Metal silicon junction, majority carrier condition.
- Low power loss, high efficiency.
- High current capability
- Guarding for overvoltage 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



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	Symb	MBR	MBR	MBR	MBR	MBR	MBR	MBR	Units
	ol	1040CT	1045CT	1050CT	1060CT	10100CT	10150CT	10200CT	UIIIIS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	100	150	200	V
Maximum RMS Voltage	V _{RMS}	40	45	50	60	100	150	200	V
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	100	150	200	V
Maximum Average Forward Current	I _{F(AV)}	10						A	
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	100						A	
Maximum Forward Voltage at 5A,per leg	V _F	0.7 0.9 1.0						V	
Macimum DC Reverse Current TJ=25°C at Rated DC		0.1 20						mA	
Blocking Voltage TJ=125℃	I _R							IIIA	
Typical Thermal Resistance	R _{Θjc}	2						°C/W	
Operating Junction and Storage Temperature Range	T _J ,T _{ST}	-50 to +150 -40 to +175						$^{\circ}$	





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Typical Characteristics

RATING AND CHARACTERISTIC CURVES

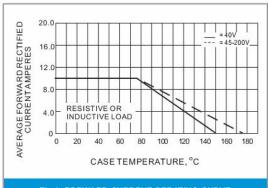
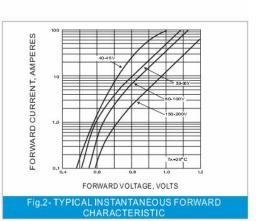


Fig.1- FORWARD CURRENT DERATING CURVE



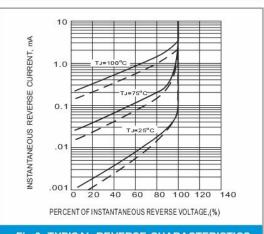
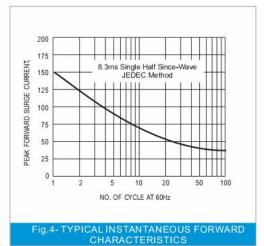
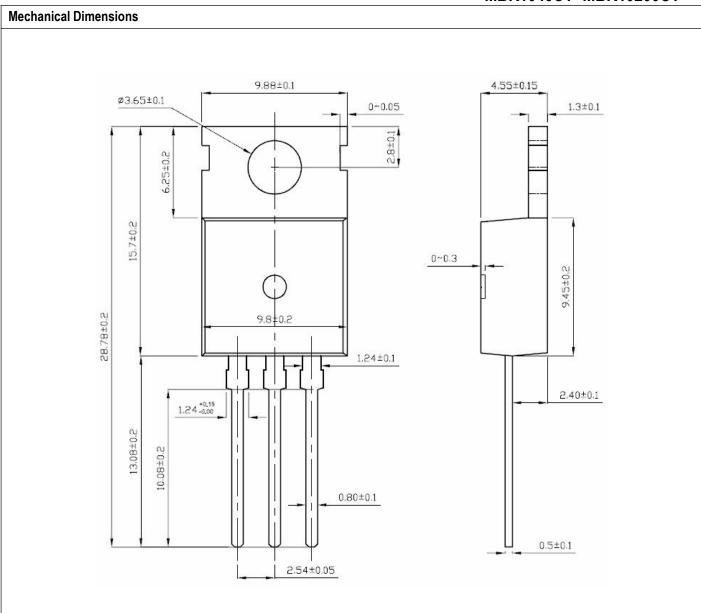


Fig.3- TYPICAL REVERSE CHARACTERISTICS





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