

MBR3040CT~MBR30200CT

DRAWING

MBR3040CT~MBR30200CT

30 AMPERES SCHOTTKY BARRIER RECTIFIERS

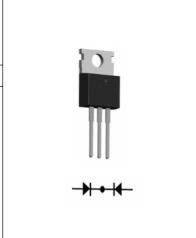
Features

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



Maximum ratings and Electrical Characteristics

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

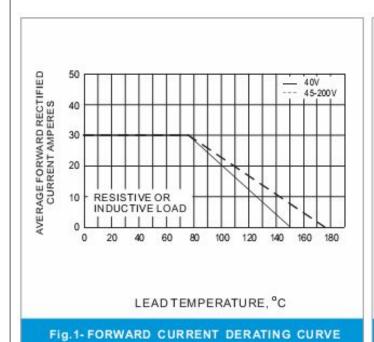
For capacitive load, derate current by 20%.

PARAMETER	Symb ol	MBR 3040CT	MBR 3045CT	MBR 3050CT	MBR 3060CT	MBR 30100CT	MBR 30150CT	MBR 30200CT	Units
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	٧
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	100	150	200	٧
Maximum Average Forward Current	I _{F(AV)}	30							А
Peak Forward Surge Current :8.3ms single half									
sine-wave superimposed on rated load (JEDEC									
method)	I _{FSM}	200							Α
Maximum Forward Voltage at 15A,per leg	VF	0.7		0.8	85	0.9	1.1	1.0	٧
Maximum DC Reverse Current TJ=25°C at Rated DC		0.2							
Blocking Voltage TJ=125°C	I _R	50							mA
Typical Thermal Resistance	R _{Θjc}	3							°C/W
Operating Junction and Storage Temperature Range	T _J ,T _{ST}	-50 to							
	G	+150 -65 to +175							$^{\circ}$

www.cldkj.com 1 of 3 CLD-DS-B017A

MBR3040CT~MBR30200CT

Typical Characteristics



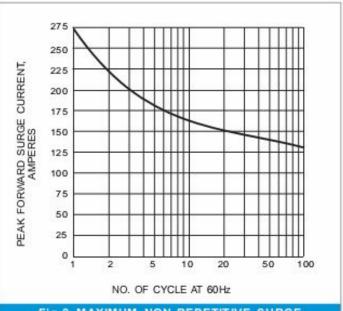
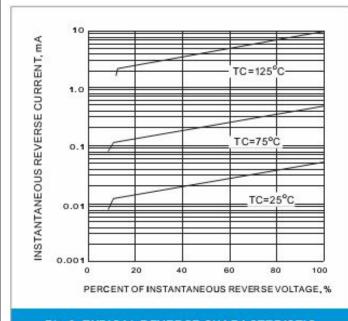


Fig.2- MAXIMUM NON-REPETITIVE SURGE CURRENT





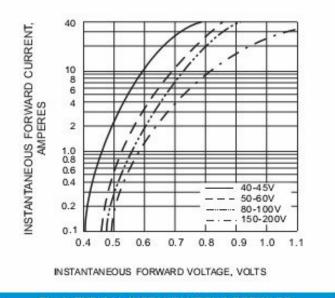


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC



MBR3040CT~MBR30200CT

Mechanical Dimensions 9.88±0.1 4.55±0.15 Ø3.65±0.1 0~0.05 1.3±0.1 2.8±0.1 6.25±0.2 15,7±0,2 0~0.3 9.45±0.2 28.78±0.2 9.8±0.2 1.24±0.1 2.40±0.1 1,24 +0.15 13.08±0.2 10.08±0.2 0.80 ± 0.1 0.5 ± 0.1 2.54±0.05

www.cldkj.com 3 of 3 CLD-DS-B017A