

# MBRB2020CT~MBRB20100CT

## SCHOTTKY BARRIER RECTIFIERS

**VOLTAGE** 20 to 100 Volt **CURRENT** 20 Amper

TO-263(D<sup>2</sup>PACK)

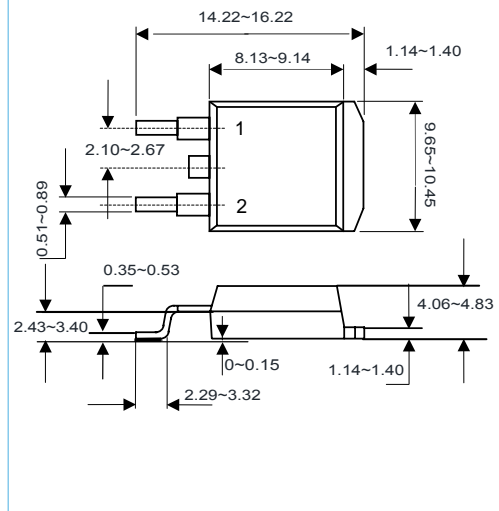
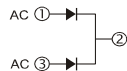
Unit:mm

### FEATURES

- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- High Current Capability, High Efficiency
- Lead free in compliance with EU RoHS

### MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	MBRB2020CT	MBRB2030CT	MBRB2040CT	MBRB2045CT	MBRB2060CT	MBRB2080CT	MBRB20100CT	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	45	60	80	100	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	31.5	42	56	70	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	45	60	80	100	V
Maximum Average Forward Current (See Figure 1)	$I_{F(AV)}$	20							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	150							A
Maximum Forward Voltage at 10 A	$V_F$	0.70				0.80	0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.1							mA
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150							°C

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## RATING AND CHARACTERISTIC CURVES

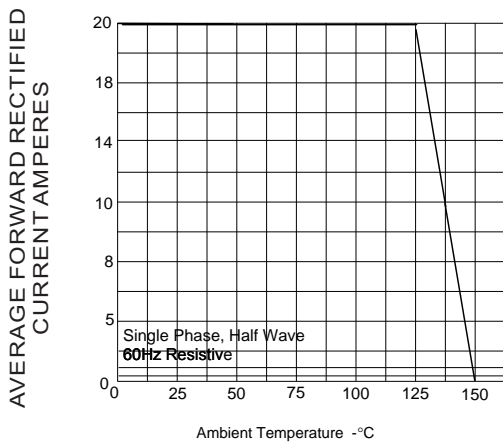


Fig. 1- FORWARD CURRENT DERATING CURVE

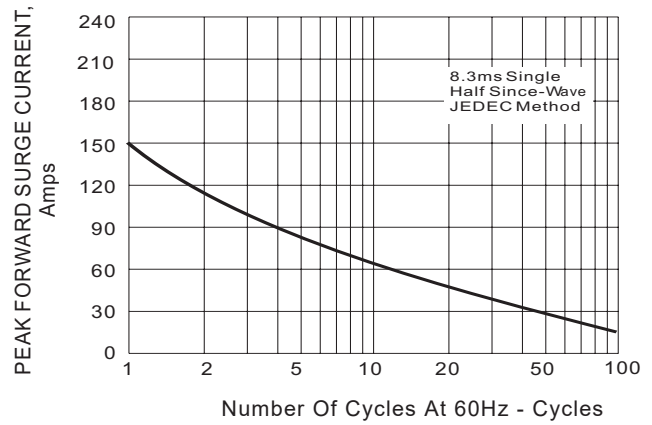


Fig. 2- MAXIMUM NON-REPETITIVE SURGE CURRENT

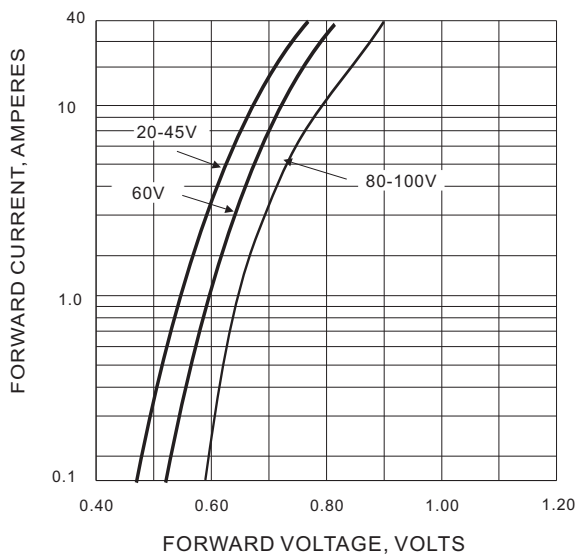


Fig. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

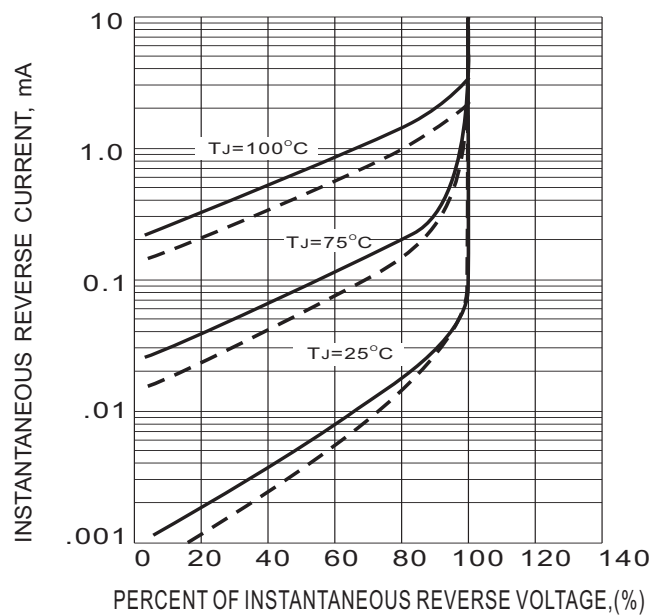


Fig. 4- TYPICAL REVERSE CHARACTERISTIC

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### ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MBRB2020CT~MBRB20100CT	TO-263	13 Inch	800