

# MBRB10100CT~MBRB10200CT

## SCHOTTKY BARRIER RECTIFIERS

**VOLTAGE** 100 to 200 Volt **CURRENT** 10 Amper

TO-263(D2PACK)

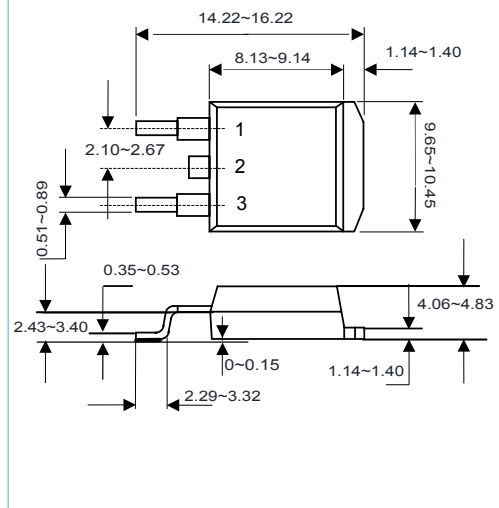
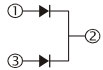
Unit:mm

### FEATURES

- Meatl of Silicon Rectifier, Majority Conducton
- Guard ring for transient protection
- High Current Capability, High Efficiency
- Low Forward Voltage Drop and Low Power Loss
- 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	MBRB10100CT	MBRB10150CT	MBRB10200CT	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	100	150	200	V
Maximum Average Forward Current (See Figure 1)	$I_{F(AV)}$	10			A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	150			A
Maximum Forward Voltage at 5 A per leg	$V_F$	0.85	0.92	0.98	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

# MBRB101007 H~MBRB1020\$CT

## RATING AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

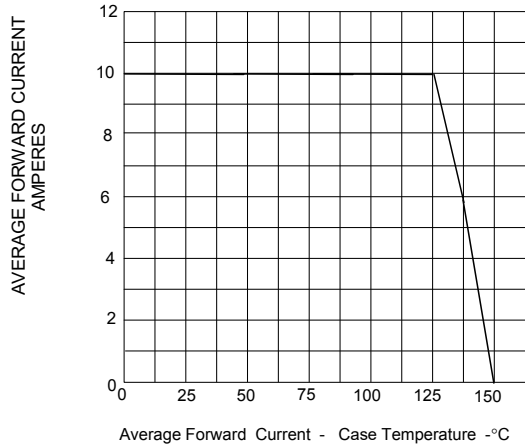


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

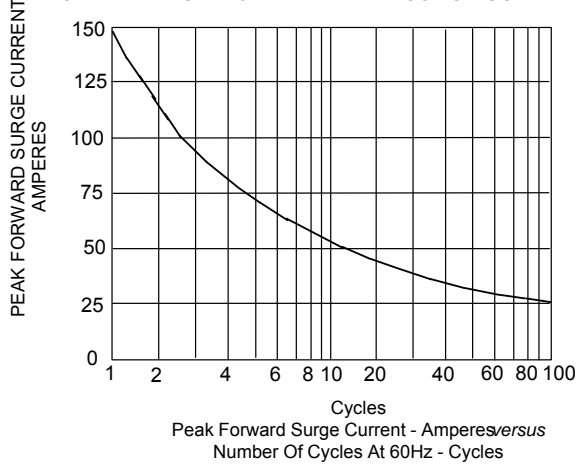


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

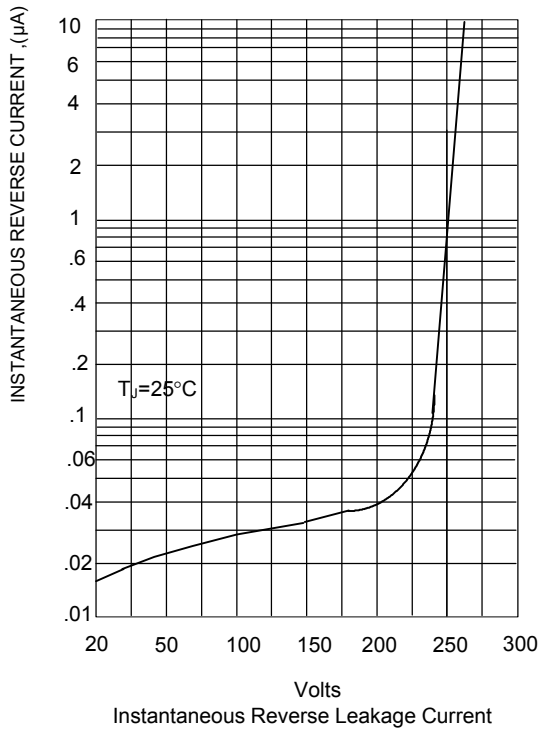
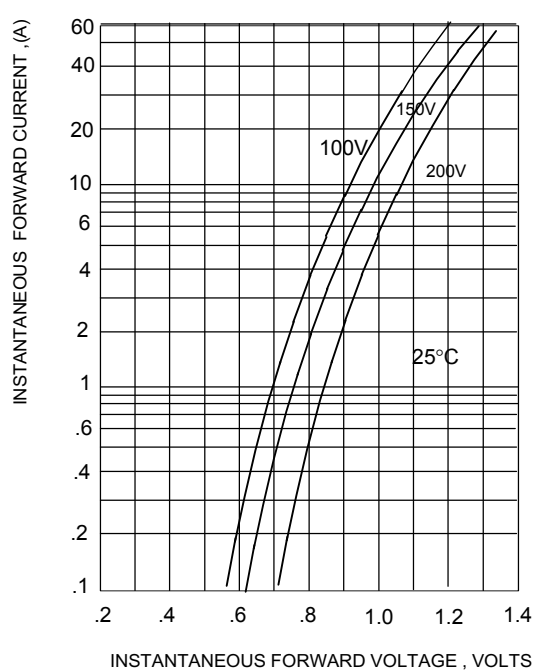


FIG.4 - TYPICAL FORWARD CHARACTERISTICS



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### ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MBRB10100CT~MBRB10200CT	TO-263	13 Inch	800