

MBRB2520CT~MBRB2560CT

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 20 to 60 Volt **CURRENT** 25 Amper

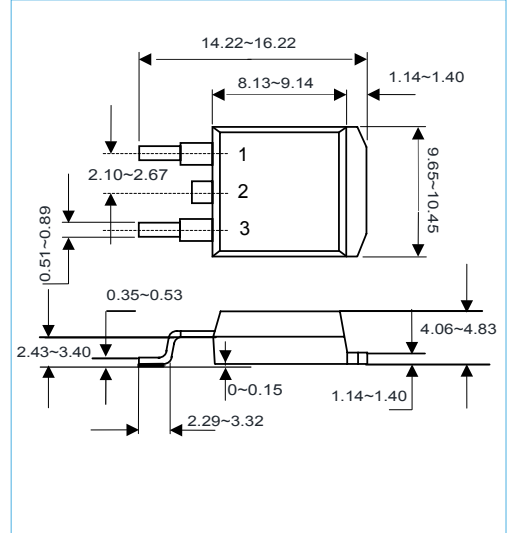
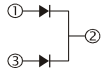
TO-263(D²PACK) Unit:mm

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	MBRB2520CT	MBRB2530CT	MBRB2535CT	MBRB2540CT	MBRB2545CT	MBRB2560CT	UNITS	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	35	40	45	60	V	
Maximum RMS Voltage	V_{RMS}	14	21	24.5	28	31.5	42	V	
Maximum DC Blocking Voltage	V_{DC}	20	30	35	40	45	60	V	
Maximum Average Forward Current (See Figure 1)	$I_{F(AV)}$	25						A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150						A	
Maximum Forward Voltage	V_F	0.82@ $I_{FM}=25A$				0.75@ $I_{FM}=15A$			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.2						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

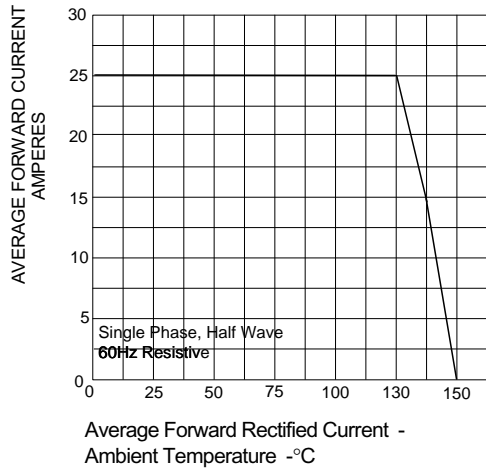


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

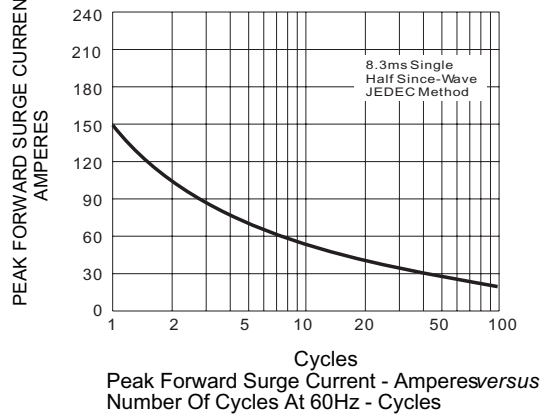


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

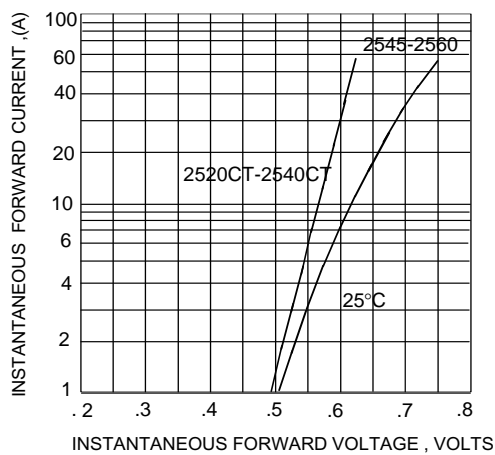
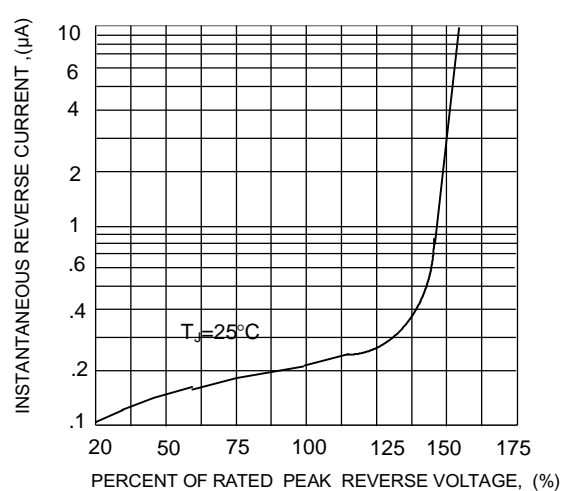


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



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ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MBRB2520CT~MBRB2560CT	TO-263	13 Inch	800