

MBR3020FCT~MBR30100FCT

SCHOTTKY BARRIER RECTIFIERS

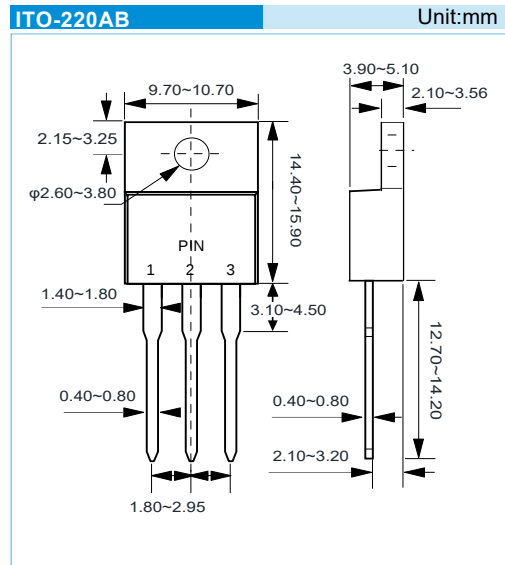
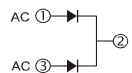
VOLTAGE 20 to 100 Volt **CURRENT** 30 Amper

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	MBR3020FCT	MBR3030FCT	MBR3040FCT	MBR3045FCT	MBR3060FCT	MBR3080FCT	MBR30100FCT	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)}	30							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	250							A
Maximum Forward Voltage at 10A per leg	V _F	0.6				0.85			V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C T _J = 125°C	I _R	0.5 30				0.5 50			mA
Typical Thermal Resistance	R _{θJC}	5							°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

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RATING AND CHARACTERISTIC CURVES

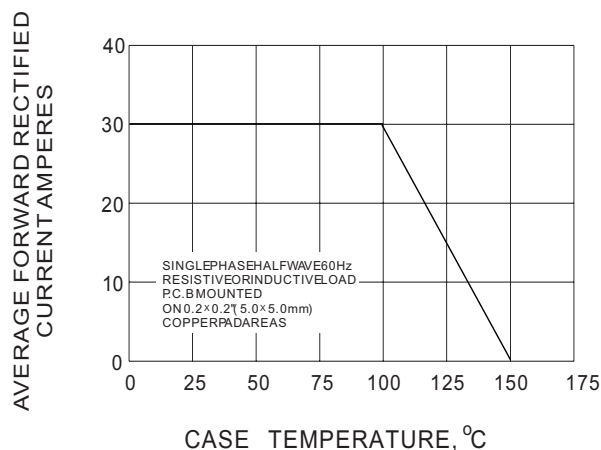


Fig.1-FORWARD CURRENT DERATING CURVE

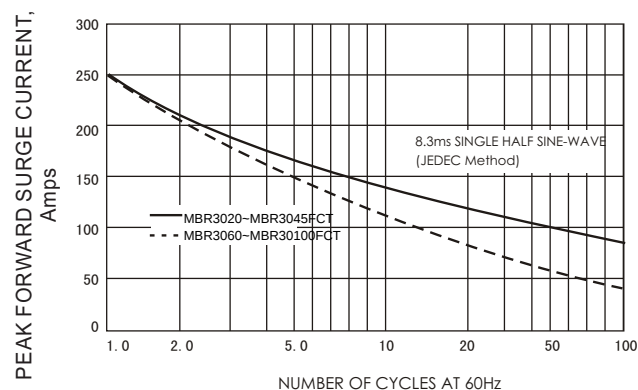


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

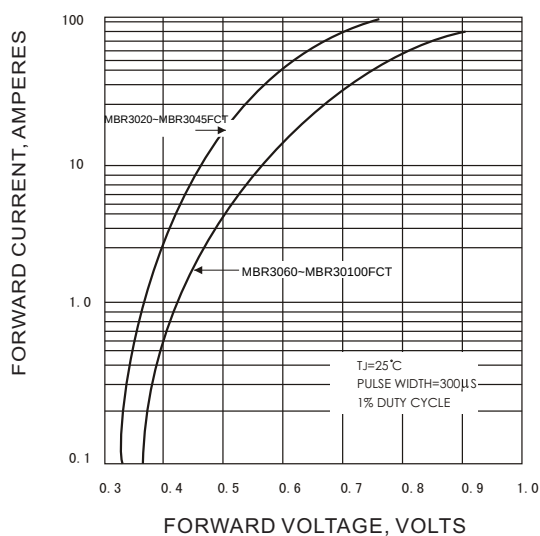


Fig.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

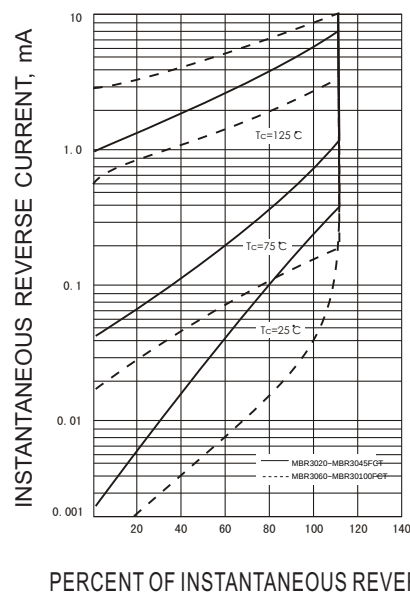


Fig.4- TYPICAL REVERSE CHARACTERISTIC

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ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MBR3020FCT~MBR30100FCT	ITO-220AB	Tube	1000/BOX