

MBR1020F~MBR10100F

SCHOTTKY BARRIER RECTIFIERS

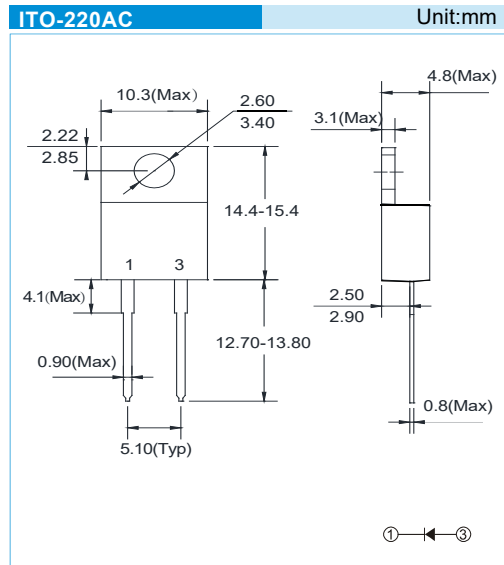
VOLTAGE	20 to 100 Volt	CURRENT	10 Amper
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FEATURES

- High surge capacity
- High Efficiency
- Low Forward Voltage , High Current Capability
- 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	MBR1020F	MBR1030F	MBR1040F	MBR1050F	MBR1060F	MBR1080F	MBR10100F	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	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)}	10							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150							A
Maximum Forward Voltage at 5A per leg	V _F	0.55			0.75		0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _c =25°C T _c =100°C	I _R	0.5 50							mA
Typical Thermal Resistance	R _{θJC}	3							°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

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RATING AND CHARACTERISTIC CURVES

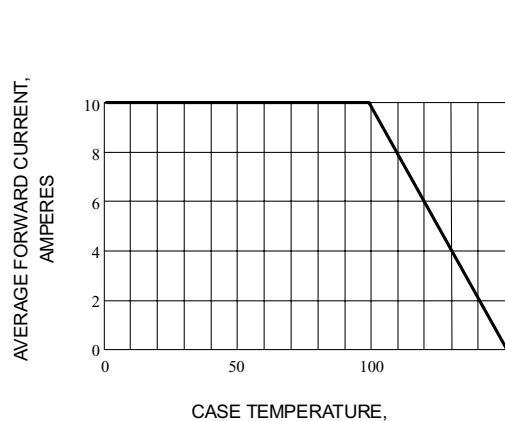


Fig. 1-FORWARD CURRENT DERATING CURVE

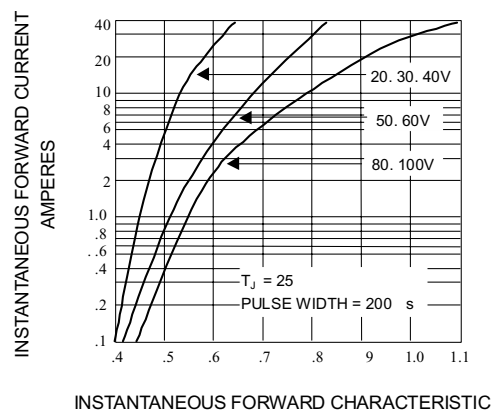


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

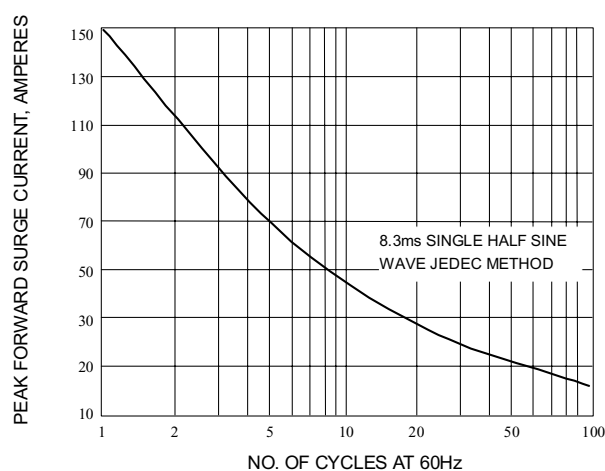


Fig. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT

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ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MBR1020F~MBR10100F	ITO-220AC	Tube	1000/BOX