

MBR1620FCT~MBR16100FCT

SCHOTTKY BARRIER RECTIFIERS

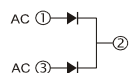
VOLTAGE 20 to 100 Volt **CURRENT** 16 Amper

FEATURES

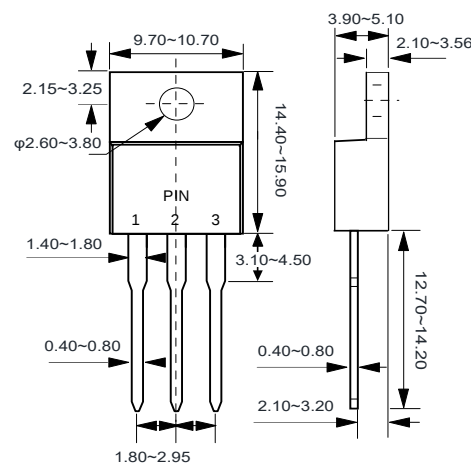
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- High Current Capability, High Efficiency
- Lead free in compliance with EU RoHS

MECHANICAL DATA

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



ITO-220AB Unit:mm



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	MBR1620FCT	MBR1630FCT	MBR1640FCT	MBR1650FCT	MBR1660FCT	MBR1680FCT	MBR16100FCT	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	50	60	80	100	V
Maximum Average Forward Current (See Figure 1)	I _{F(AV)}	16							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150							A
Maximum Forward Voltage at 8 A per leg	V _F	0.55			0.75		0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C T _J =100°C	I _R	0.5 100							mA
Typical Thermal Resistance	R _{θJC}	2							°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

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RATING AND CHARACTERISTIC CURVES

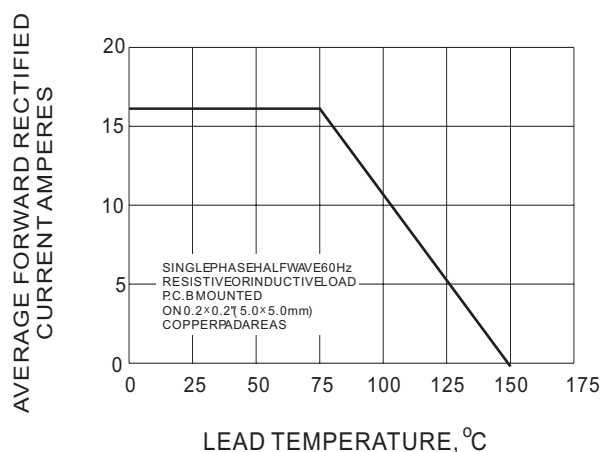


Fig.1-FORWARD CURRENT DERATING CURVE

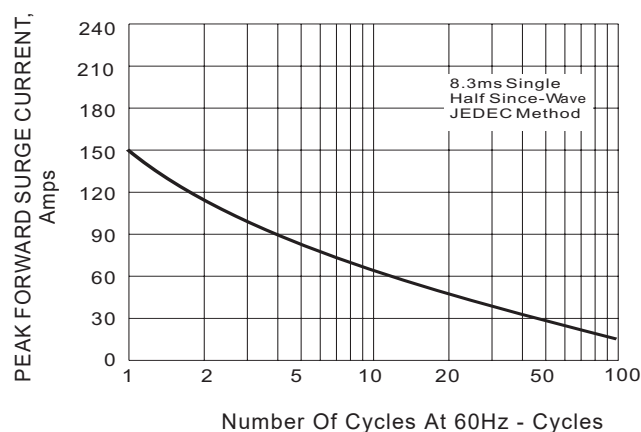


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

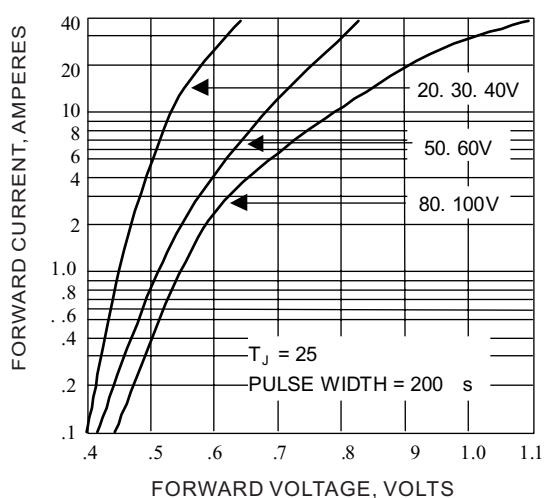


Fig.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

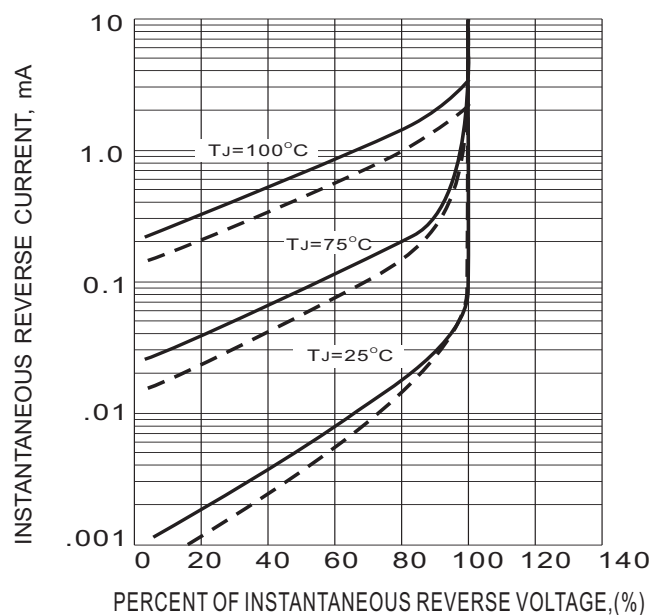


Fig.4- TYPICAL REVERSE CHARACTERISTIC

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ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MBR1620FCT~MBR16100FCT	ITO-220AB	Tube	1000/BOX