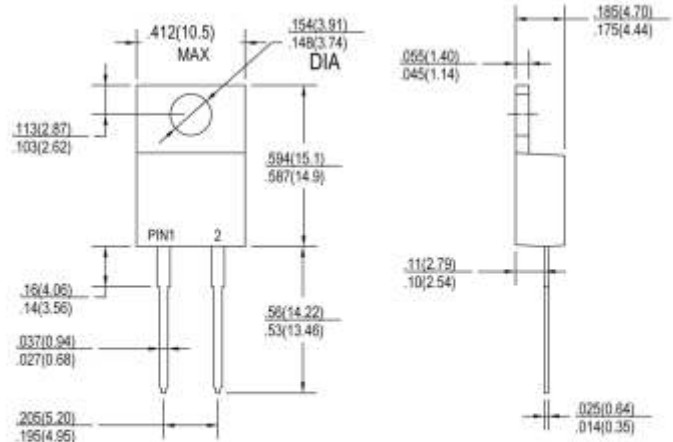


FEATURES

- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling and polarity protection applications
- High temperature soldering :260 / 1seconds , 0.25 " (6.35mm)from case

MECHANICAL DATA

- Molded plastic body (UL 94V-0 rated)
- Terminals: lead free. solderable per MIL-STD-750, Method 2026
- Polarity: As marked
- Mounting position: Any
- Mounting torque: 5 in . lbs . max
- Weight: 0.08 ounce, 2.24 grams



TO-220AC

Dimensions in inches and (millimeters)

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Ta= 25 unless otherwise specified .

Parameter	Symbol	MBR1020*	MBR1030*	MBR1040*	MBR1050*	MBR1060*	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	20	30	40	50	60	V
Maximum DC Blocking Voltage	Vbc	20	30	40	50	60	V
Maximum Average Forward Rectified Current @ Tc = 125°C	Io	10.0					A
Peak Forward Surge Current 60Hz Half-Sine Wave, 1 Cycle	IFSM	250					A
Forward Voltage Drop @ IF = 10A, Ta = 25°C @ IF = 10A, Ta = 100°C	VFM	0.55			0.70		V
Peak DC Reverse Current @ Ta = 25°C	IRM	0.2					Ma
at rated DC Blocking Voltage @ Ta = 100°C		50					
Typical Thermal Resistance Junction to Lead (Note)		3.0					
Operating Temperature Range	TJ	-55 to +125			-55 to +150		°C
Storage Temperature Range	TSTG	-55 to +150					°C

NOTE: Thermal Resistance from Junction to lead, with Heatsink Size (2 " x3 " x0.25 ") Al -Plate .

■ **RATING & CHARACTERISTIC CURVES**

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

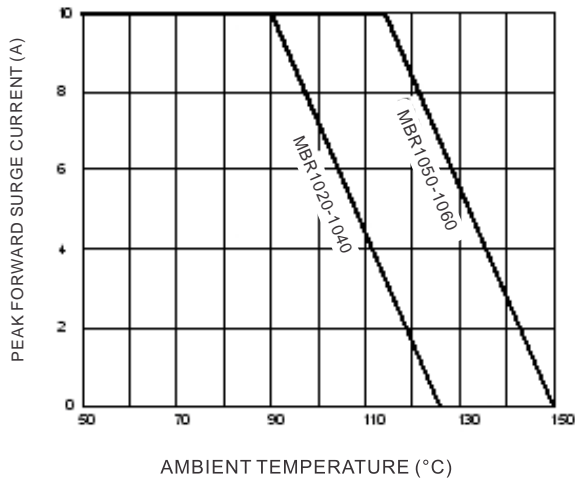


FIG.2-MAXIMUM FORWARD CURRENT DERATING

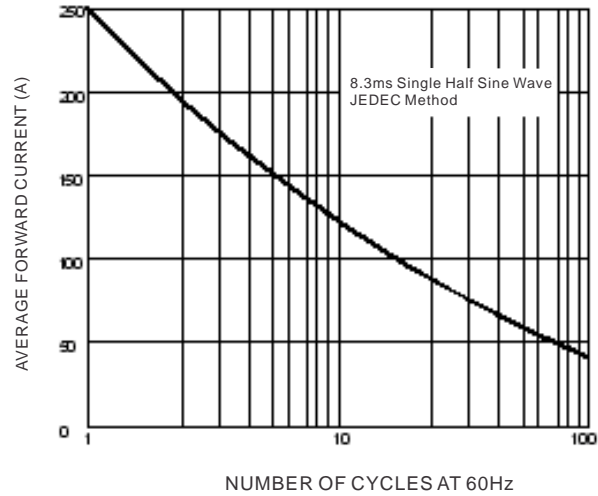


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

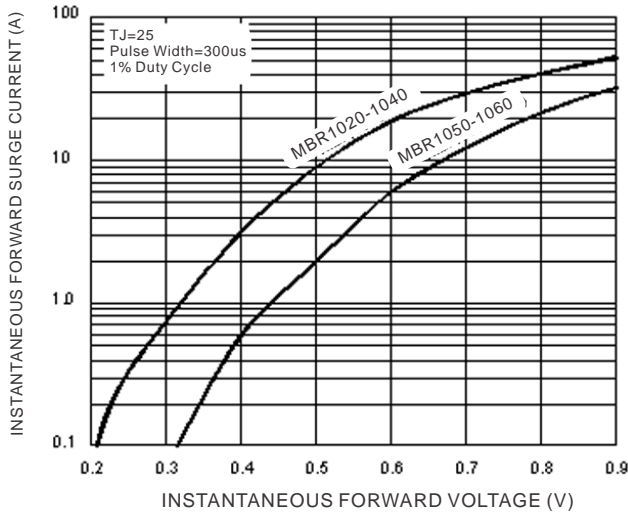


FIG.4-TYPICAL REVERSE CHARACTERISTICS

