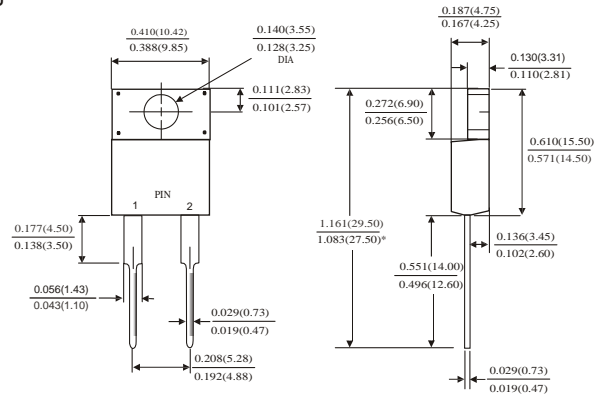


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



ITO-220AC



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC ITO-220AC molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any
- Weight: 0.08ounce, 2.24 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

	MBSymbol	MBRF 1020	MBRF 1030	MBRF 1040	MBRF 1050	MBRF 1060	MBRF 1080	MBRF 10100	MBRF 10150	MBRF 10200	Unit	
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	80	100	150	200	Volts	
Maximum RMMB voltage	VRMM	14	21	28	35	42	56	70	105	140	Volts	
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	Volts	
Maximum average forward rectified current (MBe Fig.1)	I(AV)	10.0									Amps	
Peak forward MBSurge current 8.3mMBSingle half MBSine-wave MBSuperimposed on rated load (JEDEC method)	IFM	150.0									Amps	
Maximum instantaneous forward voltage at 10.0 A(Note 1)	VF	0.60			0.75		0.85		0.90		0.95	Volts
Maximum instantaneous reverse current at rated DC blocking	IR	0.2									mA	
		15			50							
Typical thermal resistance (Note 2)	RθJC	2.5									C/W	
Operating junction temperature range	TJ	-65 to +150									C	
Storage temperature range	TMBT	-65 to +150									C	

Note MB: 1. Pulsed current: 300 MB pulsed width, 1% duty cycle
2. Thermal resistance from junction to case

RATING AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

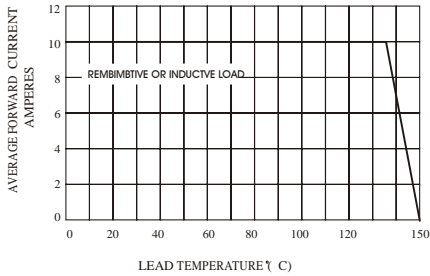


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

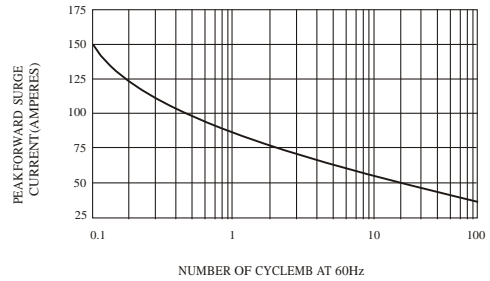


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

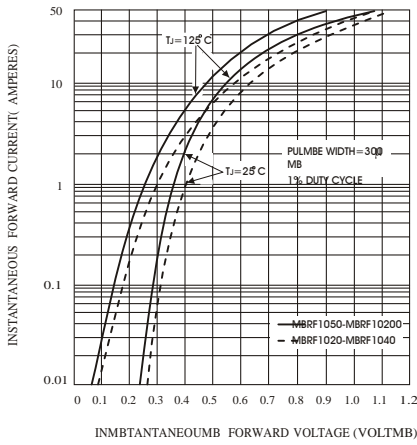


FIG.4-TYPICAL REVERSE CHARACTERISTIC

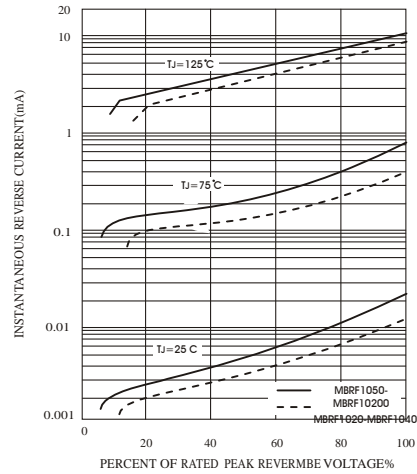


FIG.5-TYPICAL JUNCTION CAPACITANCE

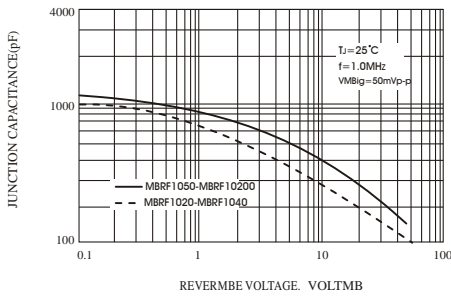


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

