

MBR1040F SERIES

10 AMPERES SCHOTTKY BARRIER RECTIFIERS

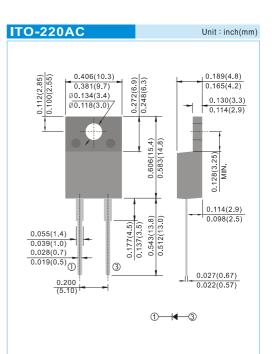
VOLTAGE 40 to 200 Volt CURRENT 10 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- High current capability
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- · Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- · Case: ITO-220AC molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · Weight: 0.055 ounces, 1.56 grams.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBR1040F	MBR1045F	MBR1050F	MBR1060F	MBR1080F	MBR1090F	MBR10100F	MBR10150F	MBR10200F	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	45	50	60	80	90	100	150	200	v
Maximum RMS Voltage	V _{rms}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	VDC	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See fig.1)	IF(AV)	10						A			
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load	Ifsm		150					A			
Maximum Forward Voltage at 10A, per leg	VF	0.	0.7 0.75 0.8 0.9			.9	v				
Maximum DC Reverse Current at Rated DC $T_j=25^{\circ}C$ Blocking Voltage (Note 2) $T_j=125^{\circ}C$	IR	0.05 20 0.05 10					mA				
Typical Thermal Resistance (Note 3)	$R_{_{ extsf{ heta}JC}}$	3						°C/W			
Operating and Storage Junction Temperature Range	Tj,Tstg	-55 to + 150				-65 t	o + 175				°C

Notes:1.Both Bonding and Chip structure are available.

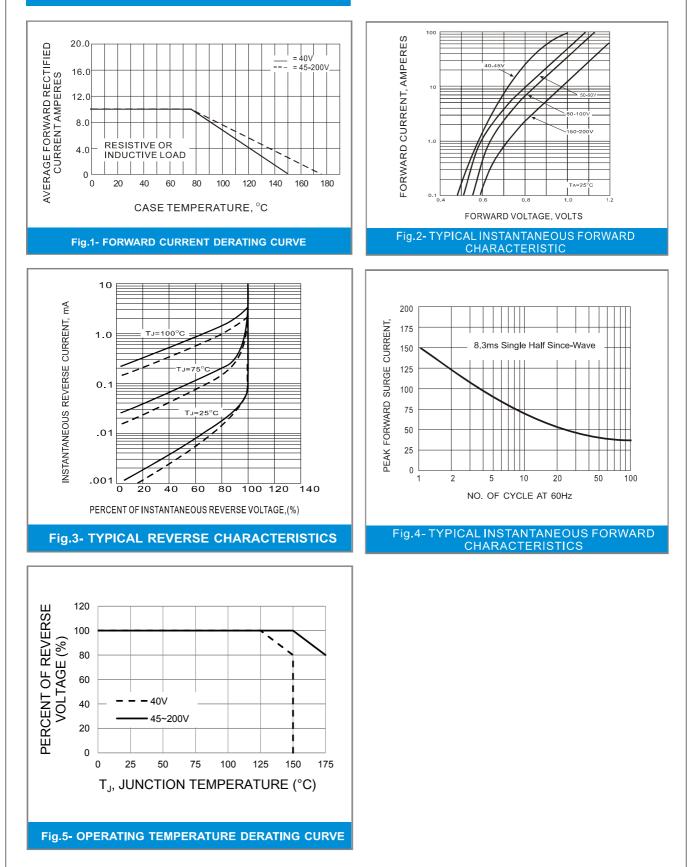
2.Short duration pulse test used to minimize self-heating effect.

3. Mounted on infinite heatsink



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RATING AND CHARACTERISTIC CURVES





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PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
MBR1040F_T0_00001	ITO-220AC	50 pcs / Tube	MBR1040F	Halogen free

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