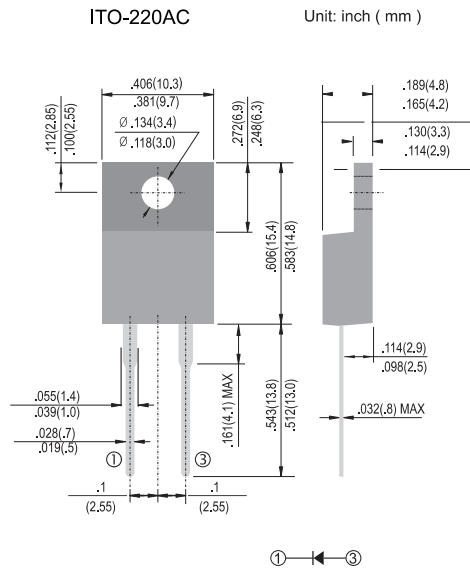


MBR1040F~MBR10200F

10 AMPERES SCHOTTKY BARRIER RECTIFIERS
VOLTAGE 40 to 200 Volts CURRENT 10 Amperes



FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- High current capability
- Guardring for overvoltage protection
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: ITO-220AC molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Mounting Position: Any

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	MBR 1040F	MBR 1045F	MBR 1050F	MBR 1060F	MBR 1080F	MBR 1090F	MBR 10100F	MBR 10150F	MBR 10200F	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	V_{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See fig.1)	$I_{F(AV)}$	10									A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	150									A
Maximum Forward Voltage at 10A, per leg	V_F	0.7	0.75		0.85			0.95			V
Maximum DC Reverse Current $T_J=25^\circ C$ at Rated DC Blocking Voltage $T_J=125^\circ C$	I_R						0.2				mA
Typical Thermal Resistance	$R_{\theta JC}$						3.0				$^\circ C / W$
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-50 to + 125					-55 to + 150				$^\circ C$

Notes :

Both Bonding and Chip structure are available.

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RATING AND CHARACTERISTIC CURVES

