



YEA SHIN TECHNOLOGY CO., LTD MBR2040FCT THRU MBR20200FCT
20A SCHOTTKY Barrier Rectifier
Voltage - 40 to 200 Volts Current – 20Amperes

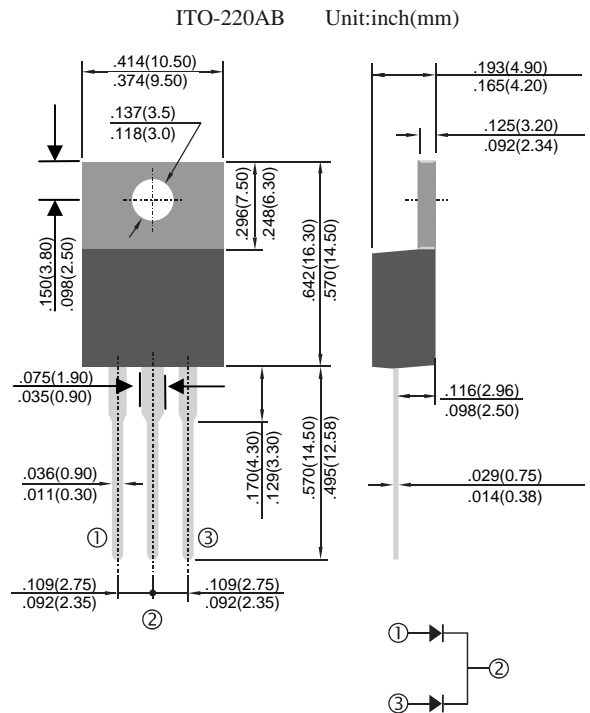


Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0. Flame Retardant Epoxy Molding Compound.
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- High current capability
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.
- Lead free in comply with EU RoHS.

Mechanical Data

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



Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)
 (Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate by 20%.)

Parameters	Symbol	MBR 2040FCT	MBR 2045FCT	MBR 2050FCT	MBR 2060FCT	MBR 2080FCT	MBR 2090FCT	MBR 20100FCT	MBR 20150FCT	MBR 20200FCT	Unit	
Maximum Repetitive 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 Rectified Current	$I_{(AV)}$	20									A	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150									A	
Maximum Instantaneous Forward Voltage at 10.0A Per Diode	V_F	0.65		0.8		0.85			0.92		V	
Maximum DC Reverse Current $T_a=25^{\circ}C$ at Rated DC Blocking Voltage $T_a=125^{\circ}C$	I_R	0.05				0.02					mA	
Typical Junction Capacitance (Note 1)	C_J	700		500		400			300	250	pF	
Maximum Thermal Resistance	$R_{\theta JC}$	2									$^{\circ}C/W$	
Operating Temperature Range	T_J	-55 to +150							-55 to +175			$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150									$^{\circ}C$	

Notes: 1. Measure at 1.0MHz and applied reverse voltage of 4.0 Vdc.

DEVICE CHARACTERISTICS

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