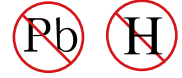




16A SCHOTTKY Barrier Rectifier

Voltage - 40 to 200 Volts Current – 16 Amperes

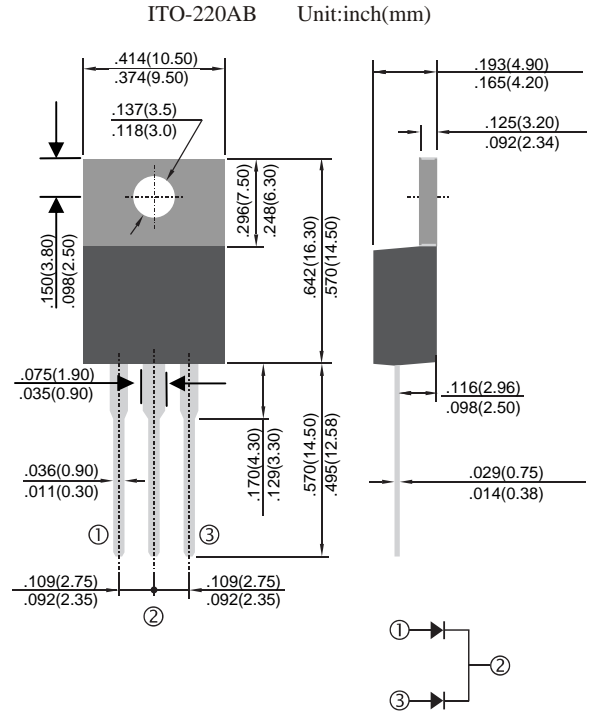


Features

- 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 1640FCT	MBR 1645FCT	MBR 1650FCT	MBR 1660FCT	MBR 1680FCT	MBR 1690FCT	MBR 16100FCT	MBR 16150FCT	MBR 16200FCT	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	$I_{(AV)}$	16									A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	120									A
Maximum Instantaneous Forward Voltage at 8.0A Per Diode	V_F	0.7		0.8		0.85		0.92			V
Maximum DC Reverse Current $T_a=25^{\circ}C$ at Rated DC Blocking Voltage $T_a=100^{\circ}C$	I_R	0.05				0.02					mA
		20				20					
Maximum Thermal Resistance	$R_{\theta JC}$	2									$^{\circ}C$
Operating Temperature Range	T_J	-55 to +150							-55 to +175		$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150									$^{\circ}C$

DEVICE CHARACTERISTICS

MBR1640FCT THRU MBR16200FCT

