

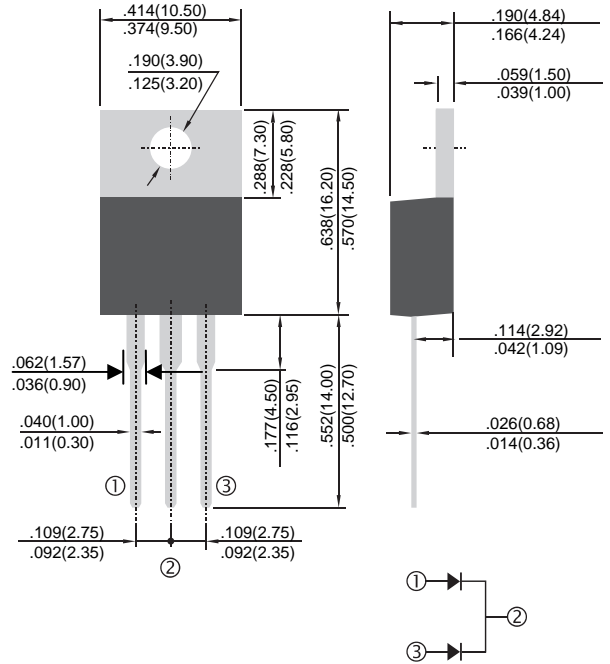


16A SCHOTTKY Barrier Rectifier

Voltage - 40 to 200 Volts Current – 16 Amperes



TO-220AB Unit:inch(mm)



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: TO-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 1640CT	MBR 1645CT	MBR 1650CT	MBR 1660CT	MBR 1680CT	MBR 1690CT	MBR 16100CT	MBR 16150CT	MBR 16200CT	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 $T_a=125^\circ C$	I_R	0.05				0.02				20	20	mA
Maximum Thermal Resistance	$R_{\theta JC}$	2									°C	
Operating Temperature Range	T_J	-55 to +150						-55 to +175			°C	
Storage Temperature Range	T_{STG}	-55 to +150						-55 to +175			°C	

DEVICE CHARACTERISTICS

MBR1640CT THRU MBR16200CT

