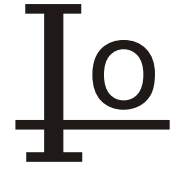


# MBR2020CT THRU MBR20100CT



## 20 AMPERES SCHOTTKY BARRIER RECTIFIERS

### 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.
- \* Lead Free Finish/RoHS Compliant

### MECHANICAL DATA

Case: TO-220AB molded plastic  
 Terminals: solder plated, solderable per MIL-STD-750, Method 2026  
 Polarity: As marked.  
 Mounting Position: Any  
 Weight: 1.81grams.

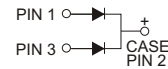
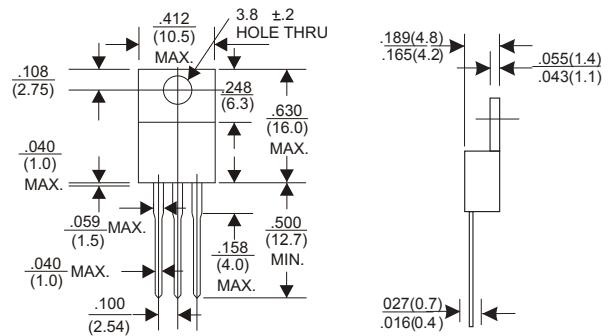
### VOLTAGE RANGE

20 to 100 Volts

### CURRENT

20.0 Ampere

#### TO-220AB



Dimensions in inches and (millimeters)

### 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	MBR2020CT	MBR2030CT	MBR2040CT	MBR2045CT	MBR2050CT	MBR2060CT	MBR2080CT	MBR20100CT	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	45	50	60	80	100	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	31.5	35	42	56	70	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	45	50	60	80	100	V
Maximum Average Forward Current (See fig.1)	$I_{AV}$	20								A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	$I_{FSM}$	150								A
Maximum Forward Voltage at 10A, per leg	$V_F$	0.65				0.85				V
Maximum DC Reverse Current $T_C=25^\circ C$ at Rated DC Blocking Voltage $T_C=125^\circ C$	$I_R$	0.5								mA
		30				50				mA
Typical Thermal Resistance	$R_{\theta JC}$	5								$^\circ C / W$
Operating Junction Temperature Range	$T_J$	-50 TO + 150								$^\circ C$
Storage Temperature Range	$T_{STG}$	-50 TO + 150								$^\circ C$
Voltage rate of change (Rated $V_R$ )	$dV/dt$	10000								V/ $\mu s$

Notes :

Both Bonding and Chip structure are available.

## RATING AND CHARACTERISTIC CURVES (MBR2020CT THRU MBR20100CT)

