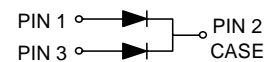
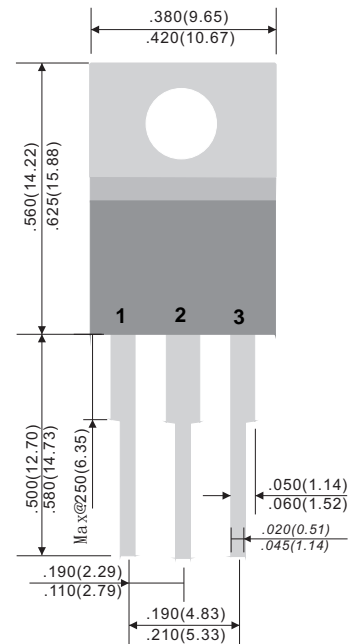




TO-220AB



Features

- Meatl of Silicon Rectifier, Majority Conduction
- Guard ring for transient protection
- Low Forward Voltage Drop
- High Current Capability, High Efficiency
- Marking : type number
- **Pb-Free package is available**
RoHS product for packing code suffix "G"
Halogen free product for packing code suffix "H"
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

- Mounting Torque: 5 in-lbs Maximum
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

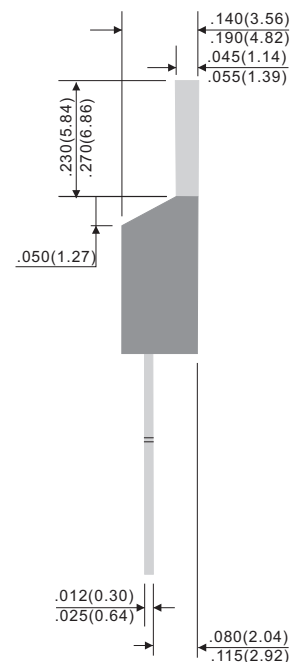
Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR2040CT	40V	28V	40V
MBR2045CT	45V	31.5V	45V
MBR2060CT	60V	42V	60V
MBR20100CT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20 A	$T_A = 120^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	.70V .80V .85V .84V .95V .95V .72V .85V .85V	$I_{FM} = 10A;$ $T_A = 25^\circ\text{C} *$ $I_{FM} = 20A;$ $T_A = 25^\circ\text{C} *$ $I_{FM} = 20A;$ $T_A = 125^\circ\text{C} *$
20I €CT-2045CT			
2060CT			
20F€OCT			
20I OCT-2045CT			
2060CT			
20F€OCT	I_R	0.1mA 0.15mA 50mA 150mA	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$
20I OCT-2045CT			
2060CT			
20F€OCT			

*Pulse Test: Pulse Width 300µsec, Duty Cycle 2%

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.



Dimensions in inches and (millimeters)

Figure 1
Typical Forward Characteristics

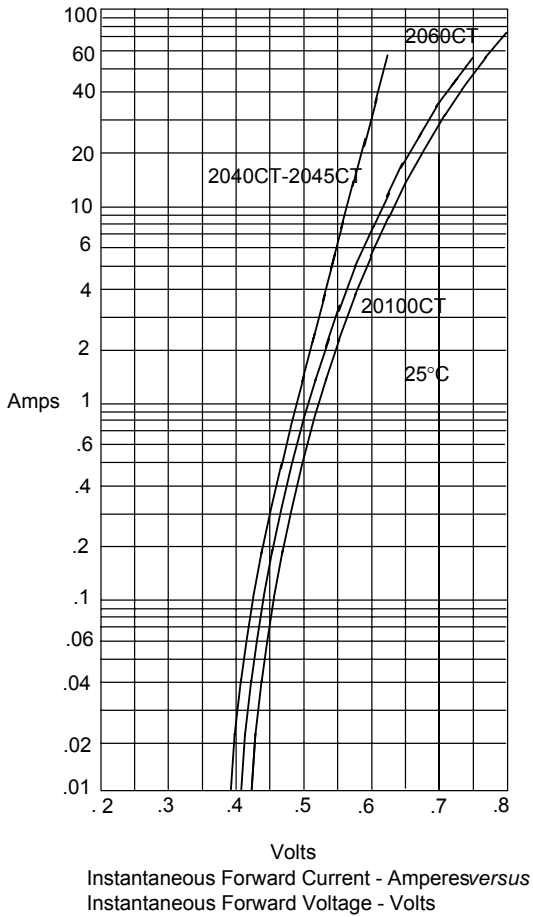


Figure 2
Typical Reverse Characteristics

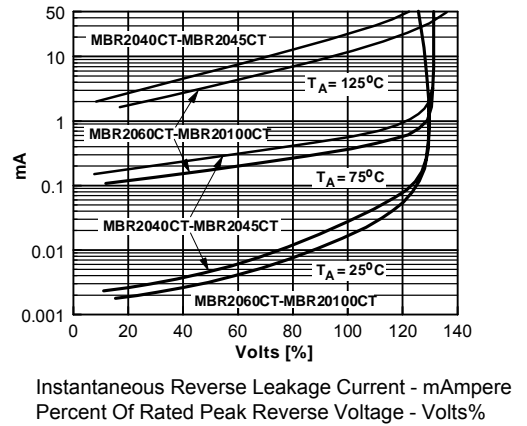


Figure 3
Forward Derating Curve

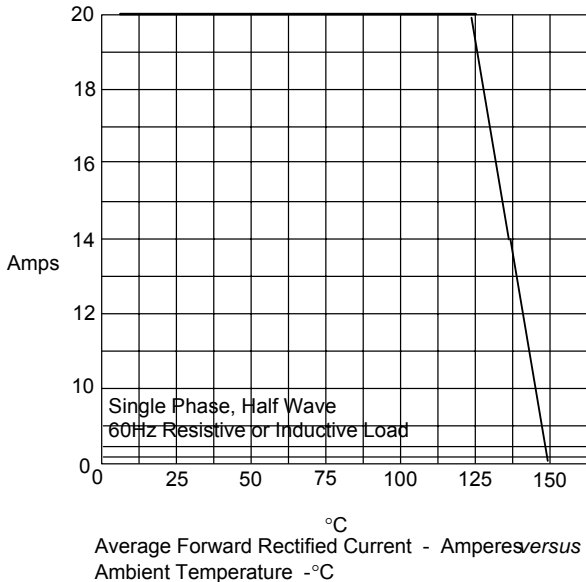


Figure 4
Peak Forward Surge Current

