

Schottky Barrier Rectifier

MBR16200CT

FEATURES

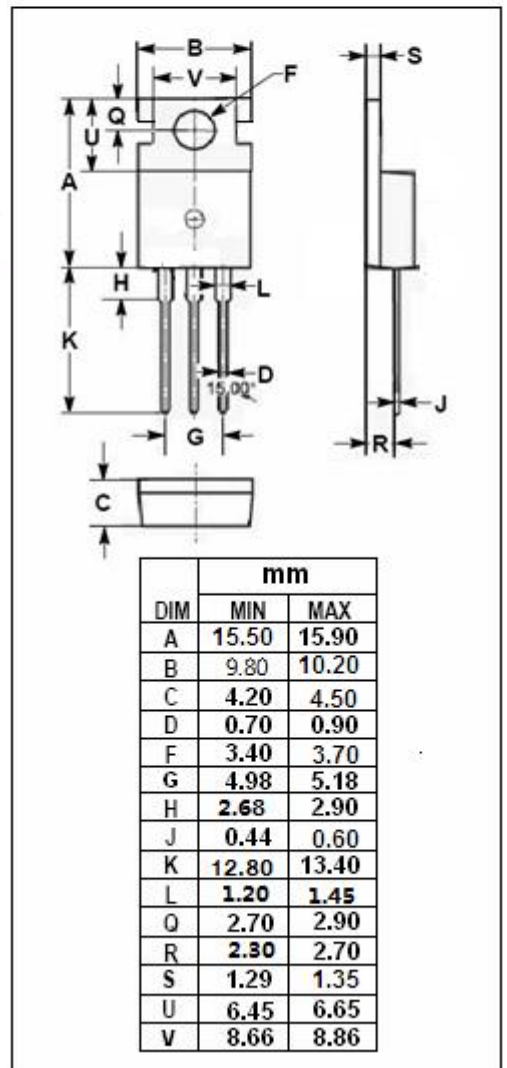
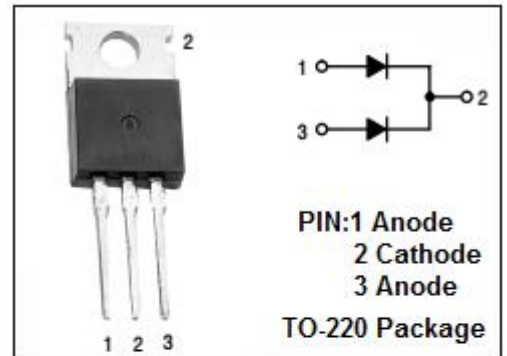
- Low power loss ,high efficiency
- Low Forward Voltage
- High surge capacity
- Pb-Free Packages are Available
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for in low voltage,high frequency inverters, free wheeling,and polarity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
VRRM VRWM VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	200	V
VR(RMS)	RMS Reverse Voltag	140	V
IF(AV)	Average Rectified Forward Current (Rated VR)	16	A
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	150	A
TJ	Junction Temperature	-55~150	°C
Tstg	Storage Temperature Range	-65~175	°C



**Schottky Barrier Rectifier****MBR16200CT****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	2.0	$^{\circ}C/W$

**ELECTRICAL CHARACTERISTICS**

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
$V_F$	Maximum Instantaneous Forward Voltage	$I_F = 8A ; T_C = 25^{\circ}C$	0.9	V
$I_R$	Maximum Instantaneous Reverse Current	Rated DC Voltage, $T_C = 25^{\circ}C$ Rated DC Voltage, $T_C = 125^{\circ}C$	0.05 20	mA