

Schottky Barrier Rectifier

HBR10200CT

FEATURES

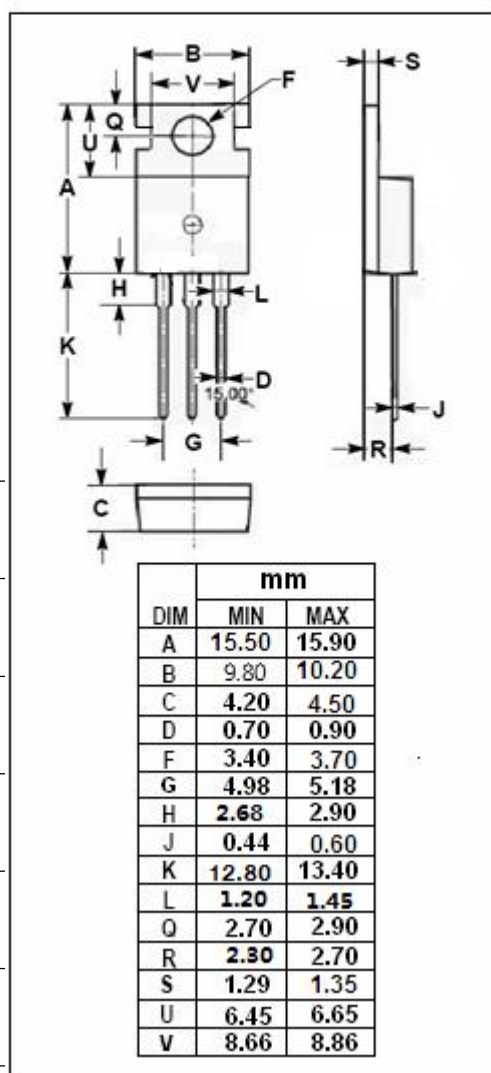
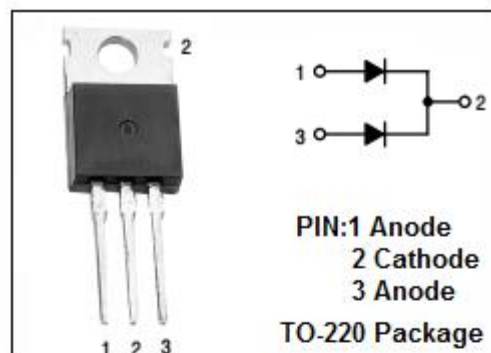
- Common Cathode Structure
- Low Power Loss/High Efficiency
- High Operating Junction Temperature
- Guarding for Overvoltage protection, High reliability
- 100% avalanche tested
- RoHS product
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- High Frequency switch power Supply
- Free wheeling diodes and polarity protection applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current (Per Leg) (Total)	5 10	A
I _{FSM}	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	80	A
T _J	Junction Temperature	175	℃
T _{stg}	Storage Temperature Range	-40~150	℃



Schottky Barrier Rectifier**HBR10200CT****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	2.4	$^{\circ}C/W$

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F = 5A ; T_j = 25^{\circ}C$	0.93	V
		$I_F = 5A ; T_j = 125^{\circ}C$	0.75	
		$I_F = 10A ; T_j = 25^{\circ}C$	0.98	
		$I_F = 10A ; T_j = 125^{\circ}C$	0.86	
I_R	Maximum Instantaneous Reverse Current	$V_R = V_{RWM} ; T_j = 25^{\circ}C$	10	μA
		$V_R = V_{RWM} ; T_j = 125^{\circ}C$	5	mA