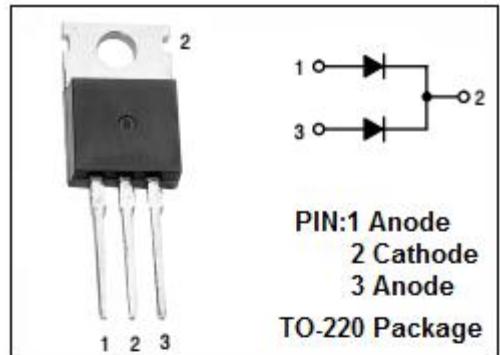


Schottky Barrier Rectifier

HBR10100CT

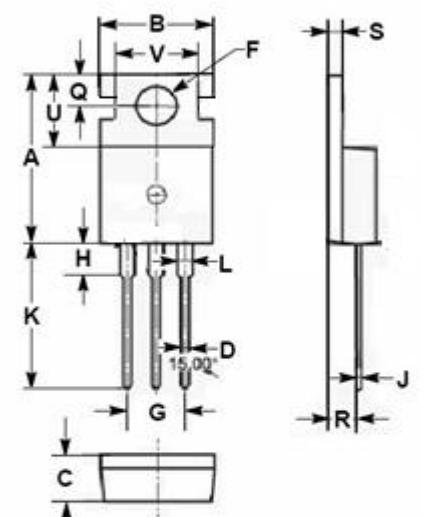
FEATURES

- 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



DIM	mm	
	MIN	MAX
A	15.50	15.90
B	9.80	10.20
C	4.20	4.50
D	0.70	0.90
F	3.40	3.70
G	4.98	5.18
H	2.68	2.90
J	0.44	0.60
K	12.80	13.40
L	1.20	1.45
O	2.70	2.90
R	2.30	2.70
S	1.29	1.35
U	6.45	6.65
V	8.66	8.86

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage		
V _{RMS}	RMS Voltage	100	V
V _R	DC Blocking Voltage		
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	°C
T _{stg}	Storage Temperature Range	-40~150	°C

Schottky Barrier Rectifier**HBR10100CT****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.9	°C/W

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F = 5A ; T_j = 25^\circ C$	0.83	V
		$I_F = 5A ; T_j = 125^\circ C$	0.7	
		$I_F = 10A ; T_j = 25^\circ C$	0.9	
		$I_F = 10A ; T_j = 125^\circ C$	0.8	
I_R	Maximum Instantaneous Reverse Current	$V_R = V_{RWM} ; T_j = 25^\circ C$	10	uA
		$V_R = V_{RWM} ; T_j = 125^\circ C$	5	mA