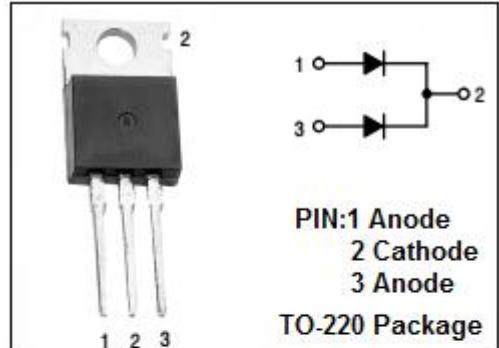


Schottky Barrier Rectifier

MBR16150CT

FEATURES

- Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- Low power loss high efficiency
- High current capability, low VF
- High surge capacity
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

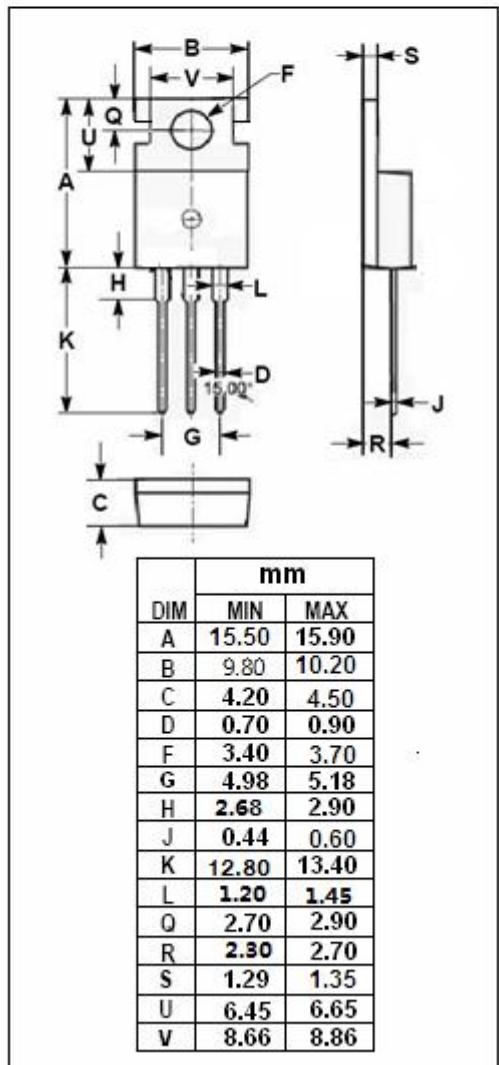


APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RMM}	Peak Repetitive Reverse Voltage		
V _{RWM}	Working Peak Reverse Voltage	150	V
V _R	DC Blocking Voltage		
V _{R(RMS)}	RMS Reverse Voltage	105	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R) T _C = 125°C	16	A
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	150	A
T _J	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~175	°C



Schottky Barrier Rectifier**MBR16150CT****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	3.0	°C/W

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 μ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 8A ; T _C = 25°C I _F = 8A ; T _C = 125°C	1.05 0.92	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25°C Rated DC Voltage, T _C = 125°C	0.1 5.0	mA