

Schottky Barrier Rectifier

MBR2545

FEATURES

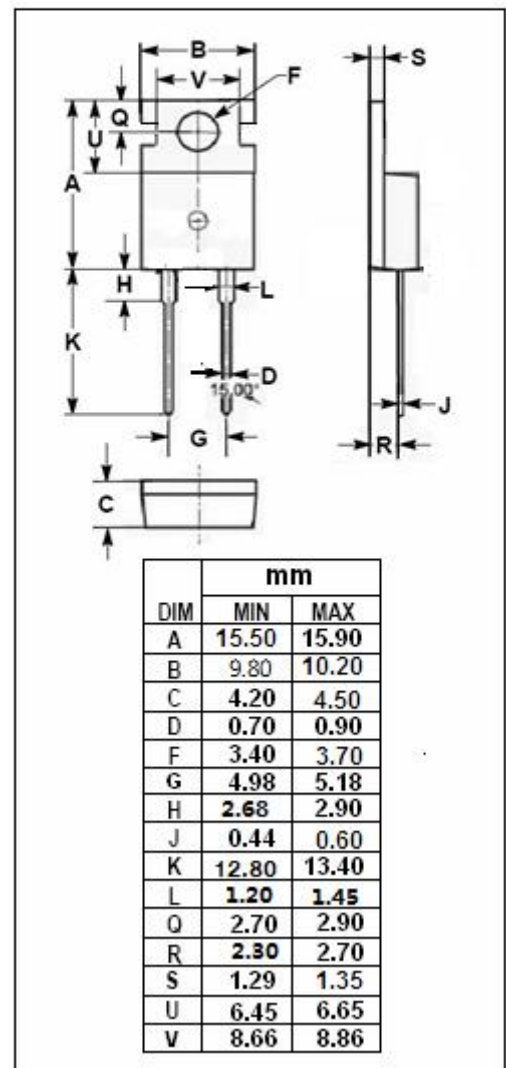
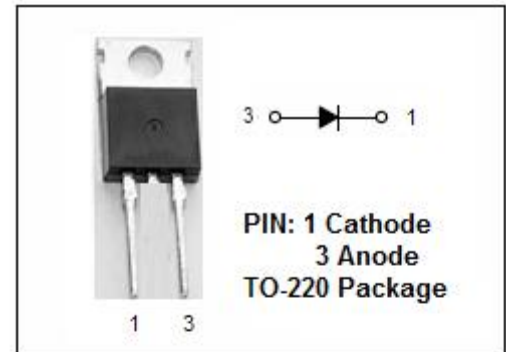
- Low forward voltage
- Guarding for stress protection
- 150°C operating junction temperature
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

MECHANICAL CHARACTERISTICS

- Case: TO-220 package
- Mounting position: Any

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	45	V
V _{RMS}	Maximum RMS Voltage	31.5	V
V _{DC}	Maximum DC Blocking Voltage	45	V
I _{F(AV)}	Average Rectified Forward Current	25	A
I _{FSM}	Peak Forward Surge Current, 8.3 ms single halfsine-wave superimposed on rated load (JEDEC method)	150	A
T _J	Junction Temperature	-65~150	°C
T _{stg}	Storage Temperature Range	-65~150	°C



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.4	°C/W

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width ≤ 300 μs, Duty Cycle ≤ 1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 25A	0.63	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, TC = 25°C	0.2	mA

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