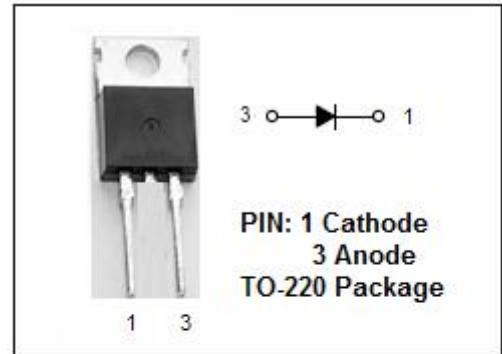


Schottky Barrier Rectifier

MBR1635

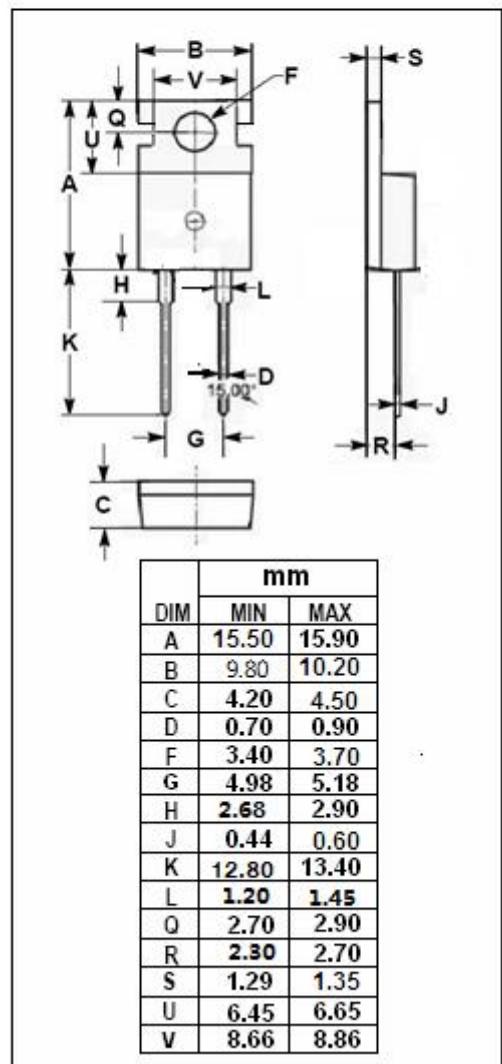
FEATURES

- Guard -Ring for Stress Protection
- Low Forward Voltage
- High Operating Junction Temperature
- Guaranteed Reverse Avalanche
- 100% avalanche tested
- Pb-Free Packages are Available
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



MECHANICAL CHARACTERISTICS

- Case: Epoxy, Molded
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds



ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage		
V _{RWM}	Working Peak Reverse Voltage	35	V
V _R	DC Blocking Voltage		
I _{F(AV)}	Average Rectified Forward Current (Rated V _R) T _C = 125°C	16	A
I _{FRM}	Peak Repetitive Forward Current (Rated V _R ,Square Wave,20kHz) T _C = 125°C	32	A
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	150	A
T _J	Junction Temperature	-65~150	°C
T _{stg}	Storage Temperature Range	-65~175	°C
dv/dt	Voltage Rate of Change (Rated V _R)	1000	V/μs

Schottky Barrier Rectifier**MBR1635****THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1.5	°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 = 16A ; T _C = 25 °C I _F = 16A ; T _C = 125 °C	0.63 0.57	V
I _R	Maximum Instantaneous Reverse Current	Rated DC Voltage, T _C = 25 °C Rated DC Voltage, T _C = 125 °C	0.2 4.0	mA