

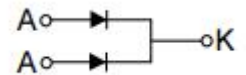
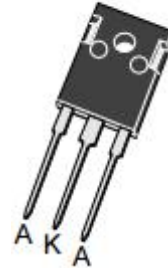
Schottky Barrier Rectifier

MBR30300PT

FEATURES

- Multilayer Metal -Silicon Potential Structure.
- Low Leakage Current.
- High Current Capability, High Efficiency.
- High Junction Temperature Capability.
- RoHs Product
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

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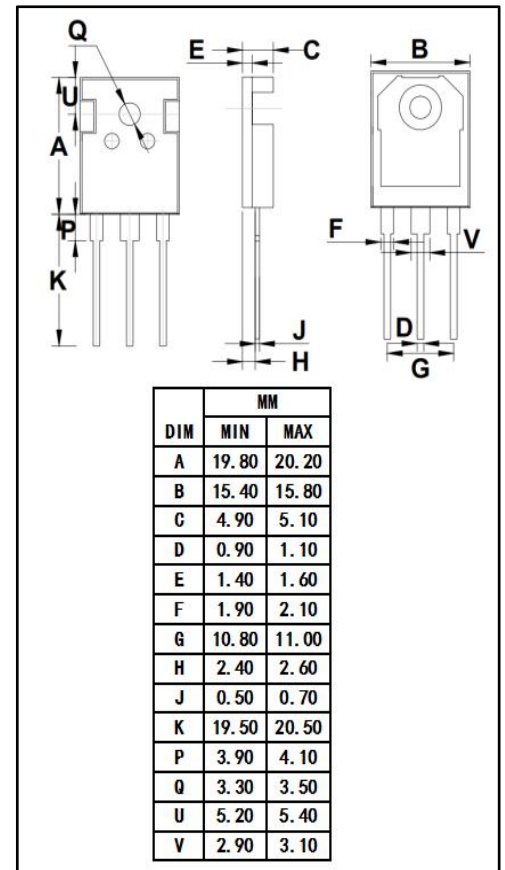


APPLICATIONS

- For use in low voltage ,high frequency inverters,free wheeling and polarity protection applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Maximal Inverted Repetitive Peak Voltage	300	V
I _{F(AV)}	Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	30	A
I _{FSM}	Forward Peak Surge Current(Rated Load 8.3 Half Mssine WaveAccording to JEDEC Method)	180×2	A
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~175	°C



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.5	°C/W

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 μ s, Duty Cycle ≤ 1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 15A ; T _c = 25°C	1.35	V
		I _F = 15A*2 ; T _c = 125°C	1.05	
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ; T _c = 25°C	0.01	mA
		V _R = V _{RWM} ; T _c = 125°C	0.1	

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