

Schottky Barrier Rectifier

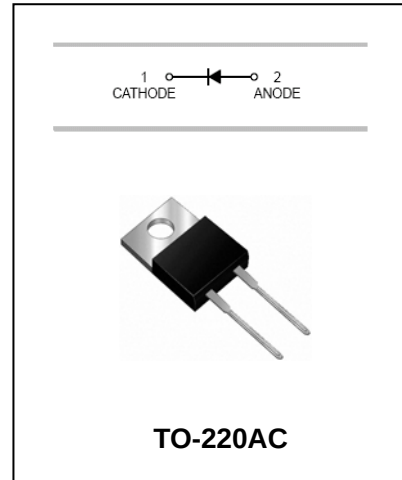
MBR15200

FEATURES

- High Surge Capacity.
- For Use In Low Voltage,High Frequency Inverters,Free Wheeling,And Polarity Protection Applications.
- Metal Silicon Junction,Majority Carrier Conduction.
- High Current Capacity,Low Forward Voltage Drop.
- Guard ring Die Construction for Transient Protection.



Lead-free



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	MBR15200	Unit
V_{RRM}	Recurrent Peak Reverse Voltage	200	V
V_{RMS}	RMS Reverse Voltage	140	V
V_{DC}	DC Blocking Voltage	200	V
$I_{F(AV)}$	Average Forward Total Device Rectified Current	15	A
I_{FSM}	Forward Surge Current 8.3ms Single Half Sine-wave Superimosed on Rated Load	150	A
$R_{\theta JC}$	Thermal Resistance	2.0	°C/W
C_j	Typical Junction Capacitance(Note1)	200	pF
T_j	Operating Junction Temperature Range	-65 to +150	°C
T_{stg}	Storage Temperature Range	-65 to +175	°C

Note:1.Mounted on Heatsink Size of 2 in*3un*0.25in Al-Plate.



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ELECTRICAL CHARACTERISTICS @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	MBR15200	UNIT
			MAX	
Reverse Current	I_R	$V_R=V_{RRM}, T_A=25^{\circ}\text{C}$ $V_R=V_{RRM}, T_A=125^{\circ}\text{C}$	0.1 50	mA
Forward Voltage	V_F (Note1)	$I_F=15\text{A}$	0.95	V

Note:1.Pulse test:300 μs pulse width,1% duty cycle.

PACKAGE OUTLINE

Plastic surface mounted package

TO-220AC

