



## MBR30100CT thru MBR30200CT

**30 Amp HT Power Schottky Barrier Rectifier**

**100 Volts to 200 Volts**

### Features

- \* High Junction Temperature Capability
- \* Low Leakage Current and Low Forward Voltage Drop
- \* Low Power Loss and High Efficiency

### Maximum Ratings

- \* Operating Junction Temperature: 150°C
- \* Storage Temperature: - 55 °C to + 175°C
- \* Per diode Thermal Resistance 2.2°C/W Junction to Case

### Mechanical Data

- \* Case: Molded Plastic
- \* Terminals: Plated Lead Solderable per MIL-STD-202, Method 208
- \* Marking: Type Number
- \* Weight: 2.24 grams (approx)

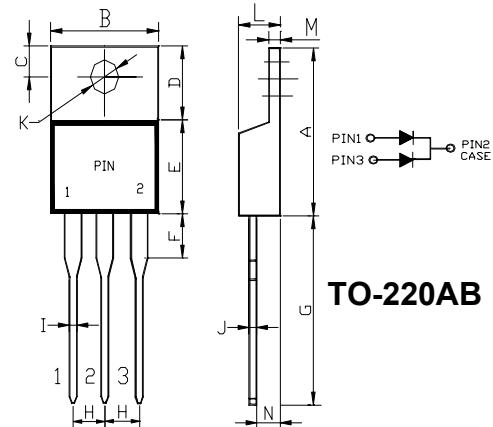
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**TO-220AB**

DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.570	0.620.	14.4	15.75
B	0.380	0.405	9.66	10.28
C	0.100	0.120	2.54	3.04
D	0.235	0.255	5.97	6.48
E	0.335	0.365	8.51	9.27
F	0.110	0.155	2.80	3.93
G	0.500	0.562	12.7	14.27
H	0.095	0.105	2.42	2.66
I	0.025	0.035	0.64	0.89
J	0.016	0.025	0.41	0.64
K	0.142	0.147	3.61	3.37
L	0.160	0.190	4.06	4.82
M	0.045	0.055	1.14	1.39
N	0.102 typ		2.6 typ	

Symbol	Characteristics		MBR30100CT	MBR30150CT	MBR30200CT	Unit
VRRM	Maximum Recurrent Peak Reverse Voltage		100	150	200	V
VRM	Maximum DC Blocking Voltage		100	150	200	V
VR(RMS)	Maximum RMS Voltage		70	105	140	V
<b>VF</b>	Maximum Forward Voltage (Note 1) IF=15.0A @TJ=25°C		0.90		0.95	V
<b>IF(AV)</b>	Average Forward Current per leg		15			A
<b>IFSM</b>	8.3ms Single Half-Sine-Wave Peak Forward Surge Current		150			A
dv/dt	Voltage Rate Of Change (Rated VR)		10000			V/us
<b>IR</b>	Maximum DC Reverse Current @TJ=25°C At Rated DC Blocking Voltage @TJ=125°C		0.2 40			mA
<b>R<sub>thJC</sub></b>	Typical Thermal Resistance (Note 2)		2.0			°C/ W
<b>C<sub>J</sub></b>	Typical Junction Capacitance (Note 3)		200			pF
<b>T<sub>J</sub></b>	Operating Temperature Range		-55to+150			°C
<b>T<sub>TG</sub></b>	Storage Temperature Range		-55to+175			°C

NOTES: 1. 300us Pulse Width, Duty Cycle 2%.  
2. Thermal Resistance Junction To Case.  
3. Measured At 1.0MHz And Applied Reverse Voltage Of 4.0V DC.