

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)

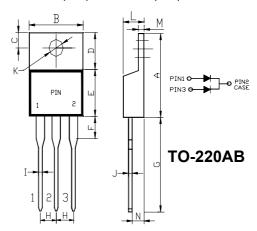
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DIMENSIONS									
DIM	INCHES		N	NO					
	MIN	MAX	MIN	MAX	TE				
Α	0.570	0.620.	14.4	15.75					
В	0.380	0.405	9.66	10.28					
С	0.100	0.120	2.54	3.04					
D	0.235	0.255	5.97	6.48					
E	0.335	0.365	8.51	9.27					
F	0.110	0.155	2.80	3.93					
G	0.500	0.562	12.7	14.27					
Н	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	ф				
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	
V F	Maximum Forward Voltage (Note 1)		_				
	IF=15.0A @TJ=25°C		0.	.90	0.95	V	
IF(AV)	Average Forward Current per leg		15				
IFSM	8.3ms Single Half-Sine-Wave			А			
	Peak Forward Surge Current		150				
dv/dt	Voltage Rate Of Change (Rated VR)		10000				
IR	Maximum DC Reverse Current	@TJ=25°C	0.2				
	At Rated DC Blocking Voltage	@TJ=125°C	40				
R thJC	Typical Thermal Resistance (Note 2)		2.0				
C J	Typical Junction Capacitance (Note 3)		200			pF	
T J	Operating Temperature Range		-55to+150			°C	
T STG	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.

Revision:1 2002/06/17