



- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

: Tin plated leads, solderable per J-STD-002 and JESD22-B102

- : As marked

Device marking code			MBR10100CTS	MBR10150CTS	MBR10200CTS
Repetitive Peak Reverse Voltage	V_{RRM}	V	100	150	200
Average Rectified Output Current @60Hz sine wave, R-load, $T_a=25$	I_o	A	10		
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25$	I_{FSM}	A	100		
Current Squared Time @1ms≤t<8.3ms $T_j=25$	I^2t	A ² s	42		
Storage Temperature	T_{stg}		-55 ~ +175		
Junction Temperature	T_j		-55 ~ +175		

■ $T_a=25$ Unless otherwise specified

Maximum instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=5.0A$	0.85	0.9	0.95
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	mA	$V_{RM}=V_{RRM}$ $T_a=25$	0.1		
	I_{RRM2}		$V_{RM}=V_{RRM}$ $T_a=125$	20		

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



T_a=25 Unless otherwise specified

Thermal Resistance	Between junction and case	R _{θJ-C}	/W	2.0		

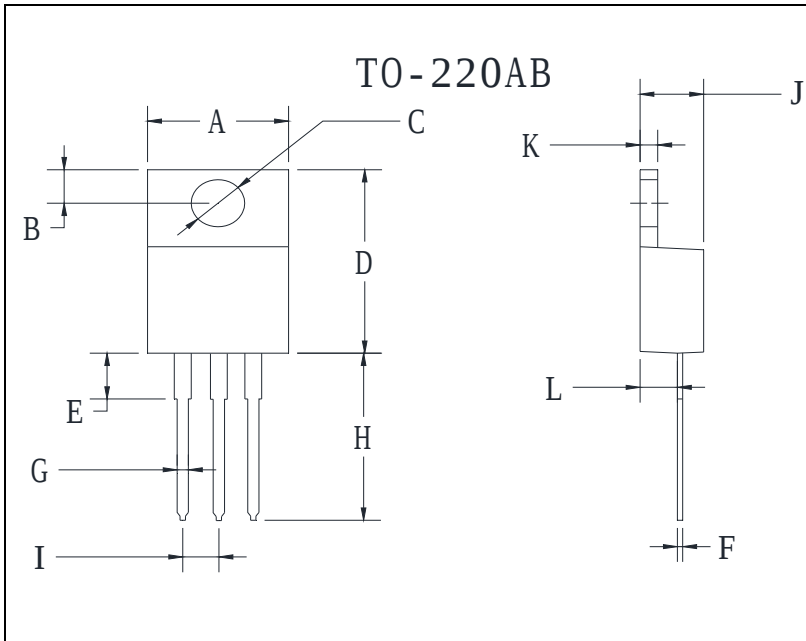


(Example)

MBR10100CTS THRU MBR10200CTS	Approximate 1.9	50	1000	5000	Tube	



(Typical)



Dim	Min	Max
A	9.95	10.35
B	2.55	2.95
C	3.8	4.0
D	14.95	15.25
E	3.75	4.25
F	0.26	0.5
G	0.68	0.94
H	13.4	13.9
I	2.35	2.65
J	4.38	4.78
K	1.14	1.4
L	2.37	2.79

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