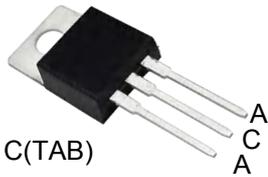
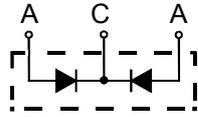


MBR10150CT thru MBR10200CT

High T_{jm} Low IRRM Schottky Barrier Diodes

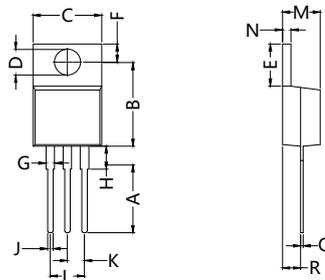


C(TAB)



A=Anode, C=Cathode, TAB=Cathode

Dimensions TO-220AB



Dim.	Millimeter	
	Min.	Max.
A	12.70	13.97
B	14.73	16.00
C	9.91	10.66
ØD	3.54	4.08
E	5.85	6.85
F	2.54	3.18
G	1.15	1.65
H	2.79	5.84
J	0.64	1.01
K	2.45BSC	
L	5.05BSC	
M	4.32	4.82
N	1.14	1.39
Q	0.35	0.56
R	2.29	2.79



	V _{RRM} V	V _{RMS} V	V _{DC} V
MBR10150CT	150	105	150
MBR10200CT	200	140	200

Symbol	Characteristics	Maximum Ratings	Unit
I _(AV)	Maximum Average Forward Rectified Current @T _c =120°C	10	A
I _{FSM}	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	120	A
dv/dt	Voltage Rate Of Change (Rated V _R)	10000	V/us
V _F	Maximum Forward Voltage (Note 1) I _F =5A @T _J =25°C I _F =5A @T _J =125°C I _F =10A @T _J =25°C I _F =10A @T _J =125°C	0.95 - 0.95 0.80	V
I _R	Maximum DC Reverse Current At Rated DC Blocking Voltage @T _J =25°C @T _J =125°C	0.05 15	mA
R _{θJC}	Typical Thermal Resistance (Note 2)	4.5	°C/W
T _J	Operating Temperature Range	-55 to +150	°C
T _{STG}	Storage Temperature Range	-55 to +150	°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.

FEATURES

- * Metal of silicon rectifier, majority carrier conduction
- * Guard ring for transient protection
- * Low power loss, high efficiency
- * High current capability, low V_F
- * High surge capacity
- * For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- * Case: TO-220AB molded plastic
- * Polarity: As marked on the body
- * Weight: 2 grams
- * Mounting position: Any

MBR10150CT thru MBR10200CT

High T_{jm} Low IRRM Schottky Barrier Diodes

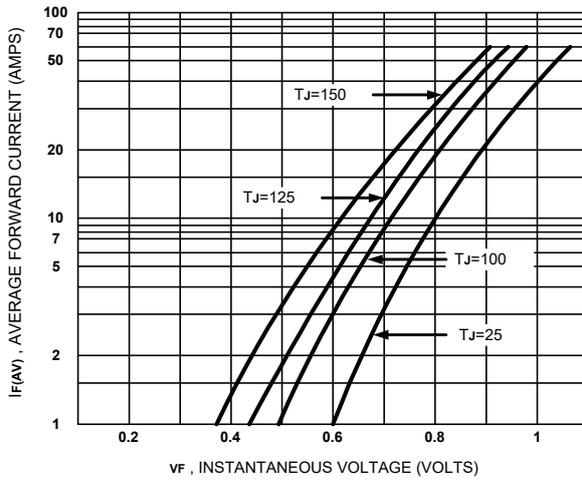


Figure 1. Typical Forward Voltage (Per Leg)

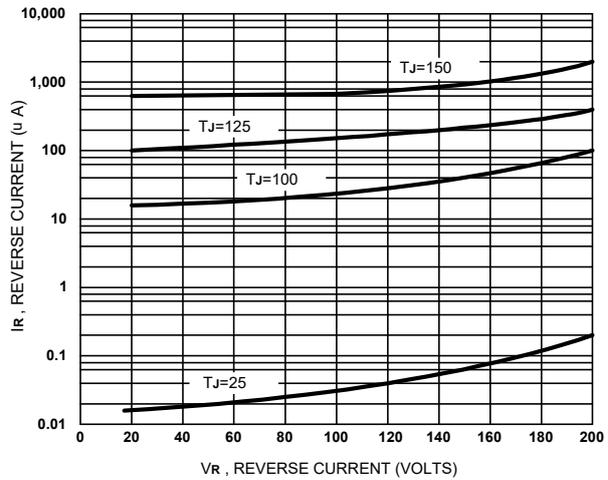


Figure 2. Typical Reverse Current (Per Leg)

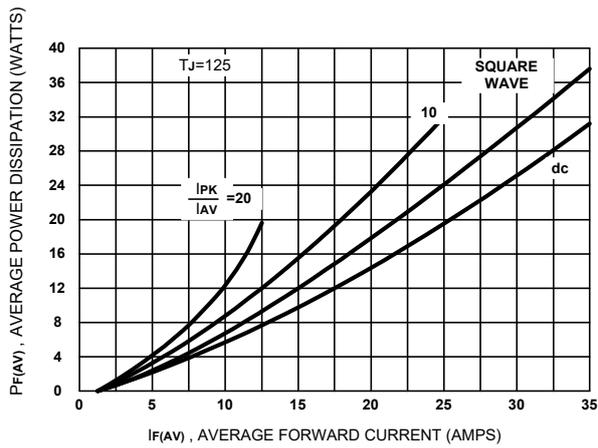


Figure 3. Forward Power Dissipation

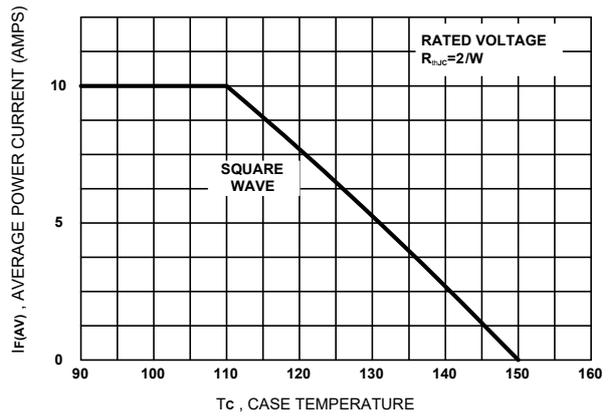


Figure 4. Forward Current Derating, Case

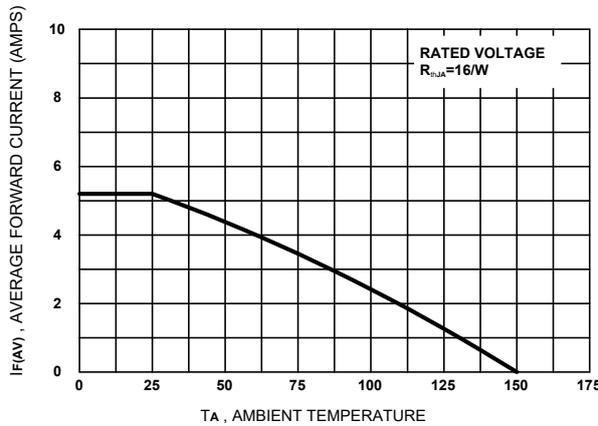


Figure 5. Current Derating, Ambient

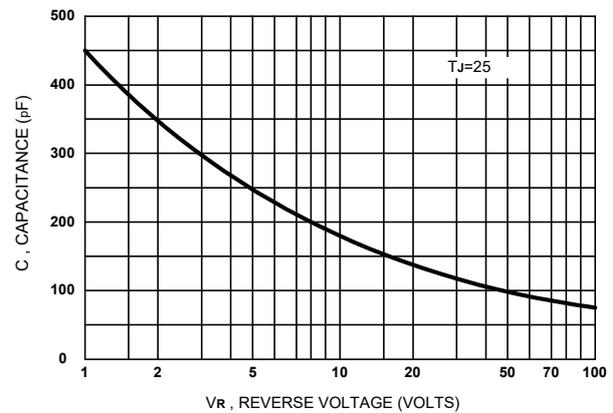
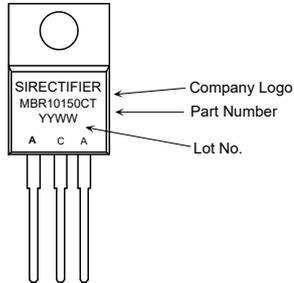


Figure 6. Typical Capacitance (Per Leg)

MBR10150CT thru MBR10200CT

High T_{jm} Low IRRM Schottky Barrier Diodes

Marking



Ordering Information

Part Number	Package	Shipping	Marking Code
MBR10150CT	TO-220AB	50pcs / Tube	MBR10150CT
MBR10200CT	TO-220AB	50pcs / Tube	MBR10200CT