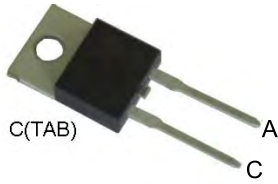


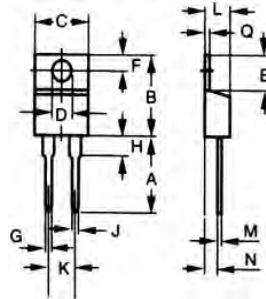
MBR10150 thru MBR10200

High T_{jm} Low IRRM Schottky Barrier Diodes



A=Anode, C=Cathode, TAB=Cathode

Dimensions TO-220AC



Dim.	Inches		Millimeter	
	Min.	Max.	Min.	Max.
A	0.500	0.580	12.70	14.73
B	0.560	0.650	14.23	16.51
C	0.380	0.420	9.66	10.66
D	0.139	0.161	3.54	4.08
E	2.300	0.420	5.85	6.85
F	0.100	0.135	2.54	3.42
G	0.045	0.070	1.15	1.77
H	-	0.250	-	6.35
J	0.025	0.035	0.64	0.89
K	0.190	0.210	4.83	5.33
L	0.140	0.190	3.56	4.82
M	0.015	0.022	0.38	0.56
N	0.080	0.115	2.04	2.49
Q	0.025	0.055	0.64	1.39

	V _{RRM}	V _{RMS}	V _{DC}
	V	V	V
MBR10150	150	105	150
MBR10200	200	140	200

Symbol	Test Conditions	Maximum Ratings	Unit
I _{FAV}	T _C =125°C; rectangular, d=0.5	10	A
I _{FSM}	T _{VJ} =45°C; t _p =10ms (50Hz), sine	150	A
I _{AR}	V _A =1.5·V _{RRM} typ.; f=10kHz; repetitive	0.8	A
(dv/dt) _{cr}		10000	V/us
T _{VJ}		-65...+150	°C
T _{VJM}		150	
T _{stg}		-65...+175	
M _d	mounting torque	0.4...0.6	Nm
Weight	typical	2	g

Symbol	Test Conditions	Characteristic Values		Unit
		typ.	max.	
I _R	T _{VJ} =25°C; V _R =V _{RRM} T _{VJ} =125°C; V _R =V _{RRM}		1.0 50	mA
V _F	I _F =10A; T _{VJ} =125°C I _F =10A; T _{VJ} =25°C I _F =20A; T _{VJ} =125°C I _F =20A; T _{VJ} =25°C		0.80 0.90 0.90 1.00	V
R _{thJC}			2.0	K/W

FEATURES

- * International standard package
- * Very low V_F
- * Extremely low switching losses
- * Low I_{RM}-values
- * RoHS compliant

APPLICATIONS

- * Rectifiers in switch mode power supplies (SMPS)
- * Free wheeling diode in low voltage converters

ADVANTAGES

- * High reliability circuit operation
- * Low voltage peaks for reduced protection circuits
- * Low noise switching
- * Low losses



MBR10150 thru MBR10200

High T_{jm} Low IRRM Schottky Barrier Diodes

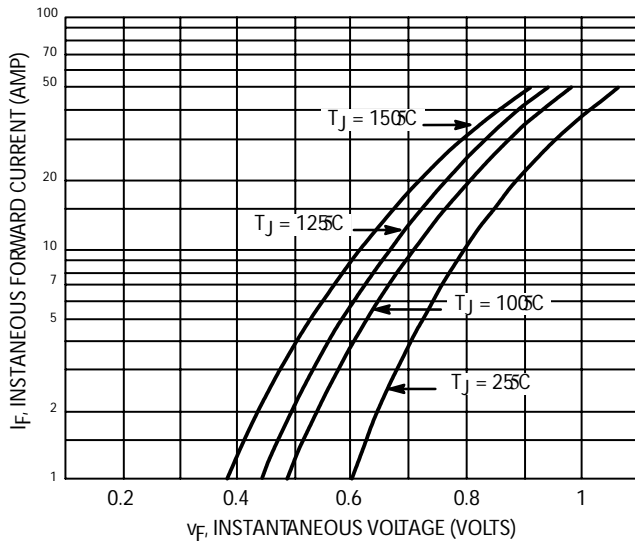


Figure 1. Typical Forward Voltage (Per Leg)

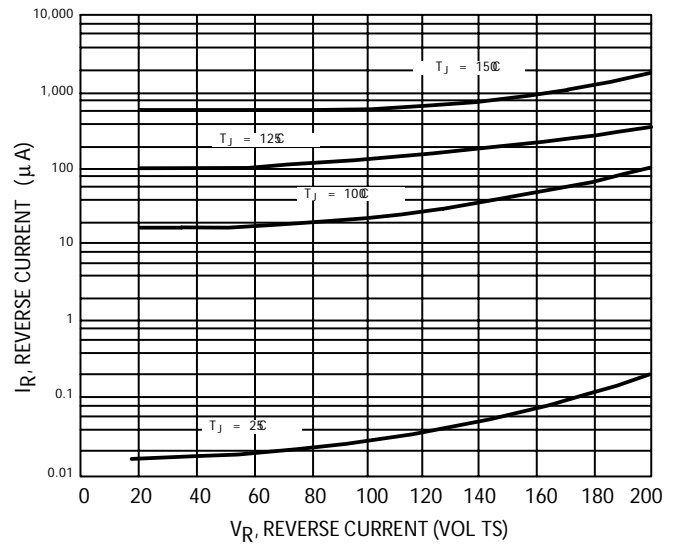


Figure 2. Typical Reverse Current (Per Leg)

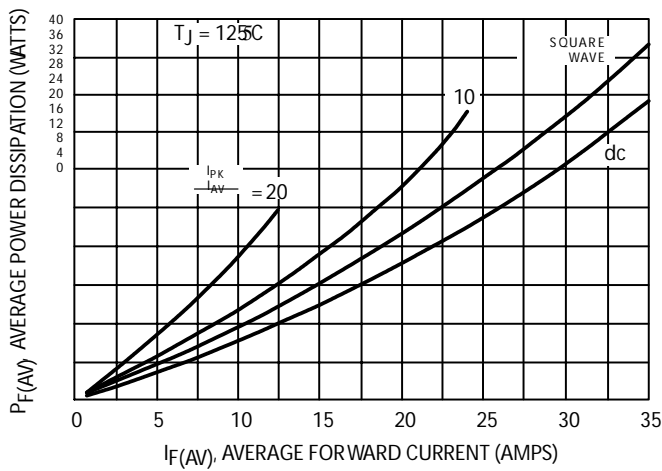


Figure 3. Forward Power Dissipation

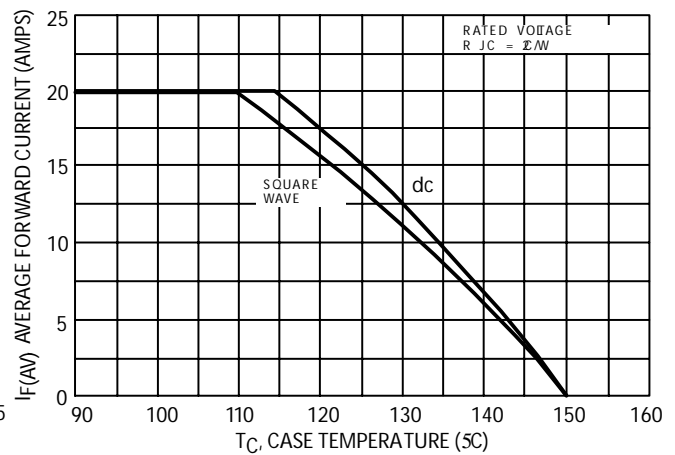


Figure 4. Current Derating, Case

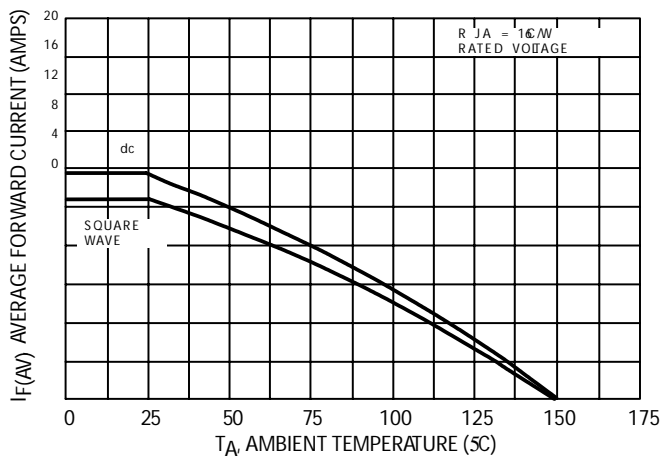


Figure 5. Current Derating, Ambient

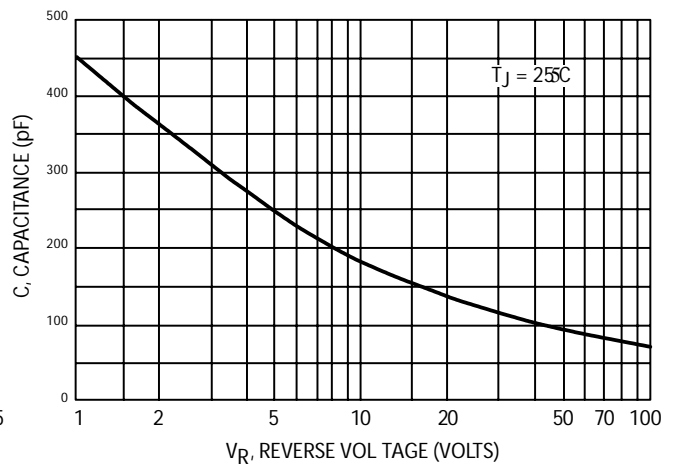


Figure 6. Typical Capacitance (Per Leg)



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