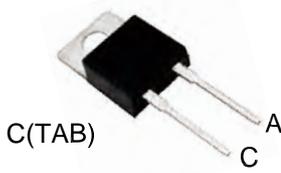


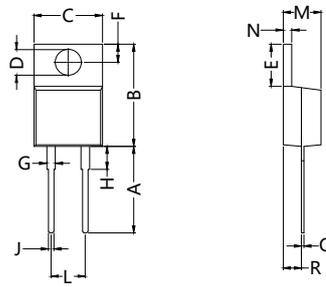
MBR10150 thru MBR10200

High T_{jm} Low IRRM Schottky Barrier Diodes



A=Anode, C=Cathode, TAB=Cathode

Dimensions TO-220AC



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
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
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} T _{VJM} T _{stg}		-65...+150 150 -65...+175	°C
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 IRRM-values
- * RoHS compliance

APPLICATIONS

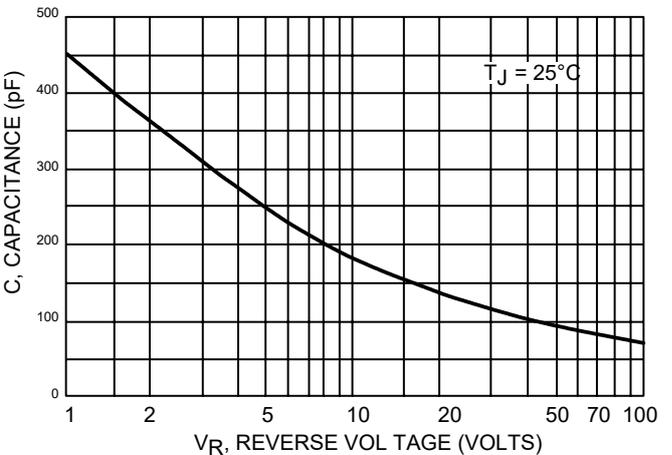
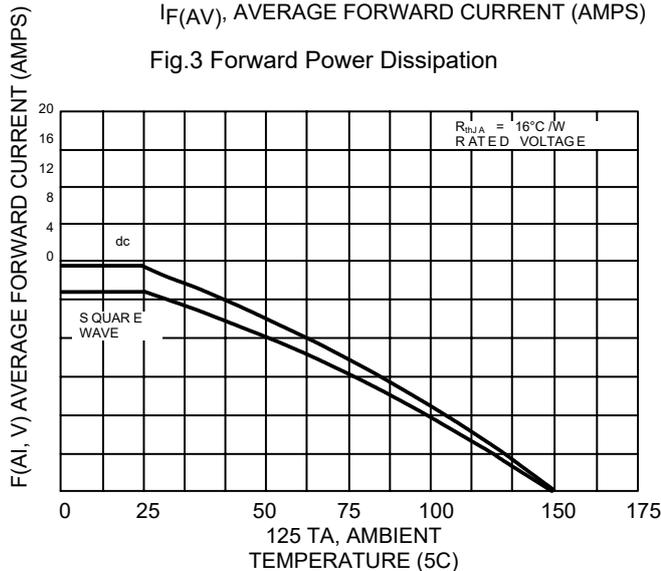
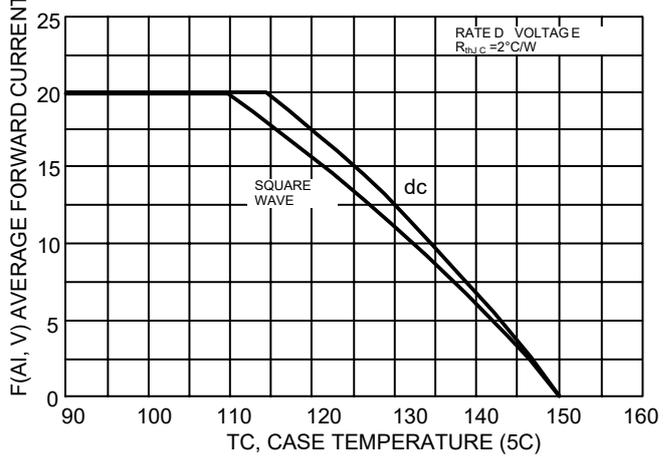
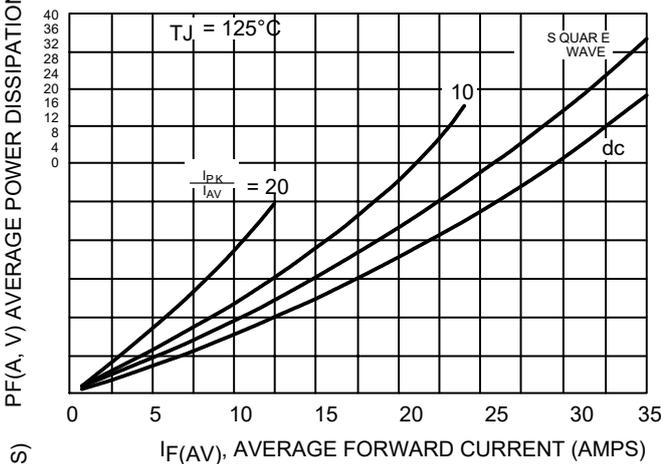
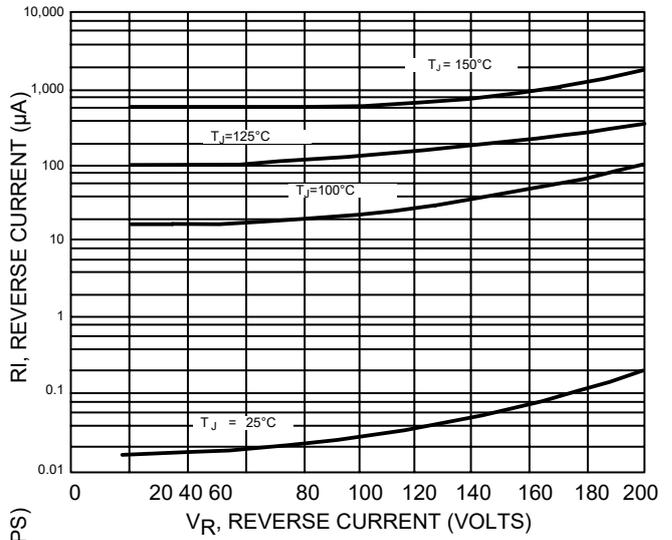
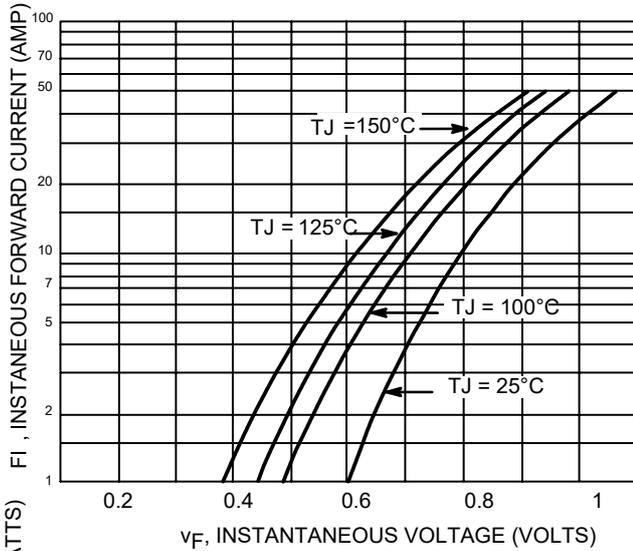
- * Rectifiers in switch mode power supplies (SMPS)
- * Free wheeling diode in low voltage converters

ADVANTAGES

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

MBR10150 thru MBR10200

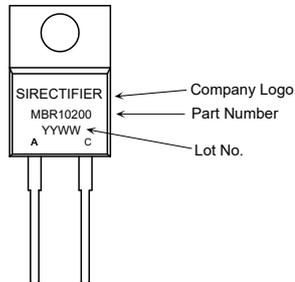
High T_{jm} Low IRRM Schottky Barrier Diodes



MBR10150 thru MBR10200

High Tjm Low IRRM Schottky Barrier Diodes

Marking



Ordering Information

Part Number	Package	Shipping	Marking Code
MBR10150	TO-220AC	50pcs / Tube	MBR10150
MBR10200	TO-220AC	50pcs / Tube	MBR10200