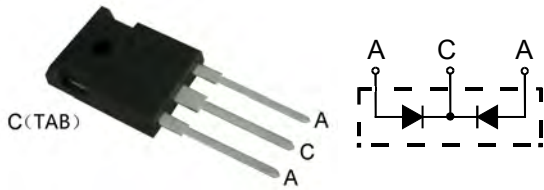


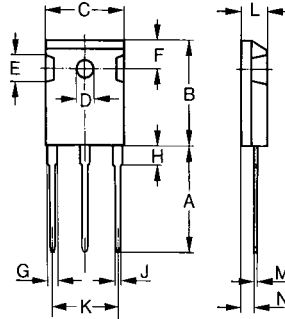
MBR600PT thru MBR600PT

High Tjm Low IRRM Schottky Barrier Diodes



A=Anode, C=Cathode, TAB=Cathode

Dimensions TO-247AD



Dim.	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	19.81	20.32	0.780	0.800
B	20.80	21.46	0.819	0.845
C	15.75	16.26	0.610	0.640
D	3.55	3.65	0.140	0.144
E	4.32	5.49	0.170	0.216
F	5.4	6.2	0.212	0.244
G	1.65	2.13	0.065	0.084
H	-	4.5	-	0.177
J	1.0	1.4	0.040	0.055
K	10.8	11.0	0.426	0.433
L	4.7	5.3	0.185	0.209
M	0.4	0.8	0.016	0.031
N	1.5	2.49	0.087	0.102

	VRRM V	VRMS V	VDC V
MBR600PT	100	70	100
MBR600PT	150	105	150
MBR600PT	200	140	200

Symbol	Characteristics	Maximum Ratings	Unit
I(AV)	Maximum Average Forward Rectified Current @Tc=125°C	60	A
IFSM	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	450	A
VF	Maximum Forward Voltage (Note 1) IF=30A @TJ=25°C IF=30A @TJ=125°C IF=60A @TJ=25°C	0.90 0.80 1.05	V
IR	Maximum DC Reverse Current At Rated DC Blocking Voltage @TJ=25°C @TJ=100°C	1.0 50	mA
ReJC	Typical Thermal Resistance (Note 2)	1.10	°C/W
CJ	Typical Junction Capacitance Per Element (Note 3)	680	pF
TJ	Operating Temperature Range	-55 to +150	°C
Tstg	Storage Temperature Range	-55 to +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.

FEATURES

- * Metal of silicon rectifier, majority carrier conduction
- * Guard ring for transient protection
- * Low power loss, high efficiency
- * High current capability, low VF
- * High surge capacity
- * Plastic package has UL flammability classification 94V-0
- * For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- * RoHS compliant

MECHANICAL DATA

- * Case: TO-247AD molded plastic
- * Polarity: As marked on the body
- * Weight: 6 grams
- * Mounting position: Any



MBR60\$0PT thru MBR60\$\$PT

High Tjm Low IRRM Schottky Barrier Diodes

FIG.1 - FORWARD CURRENT DERATING CURVE

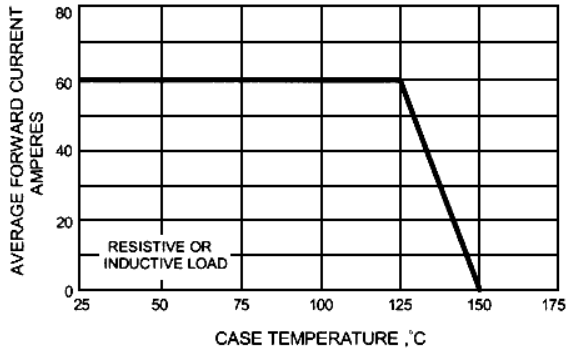


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

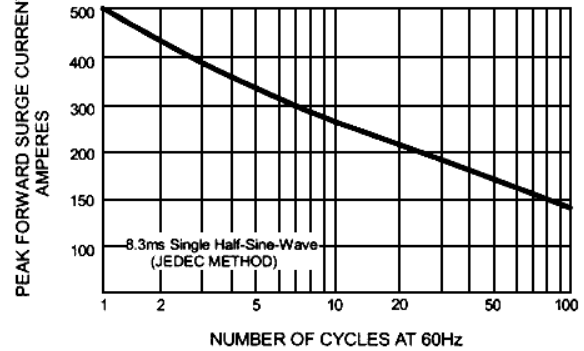


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

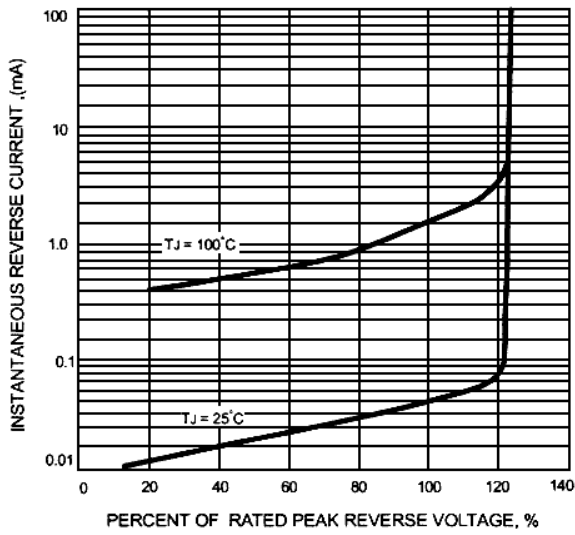


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

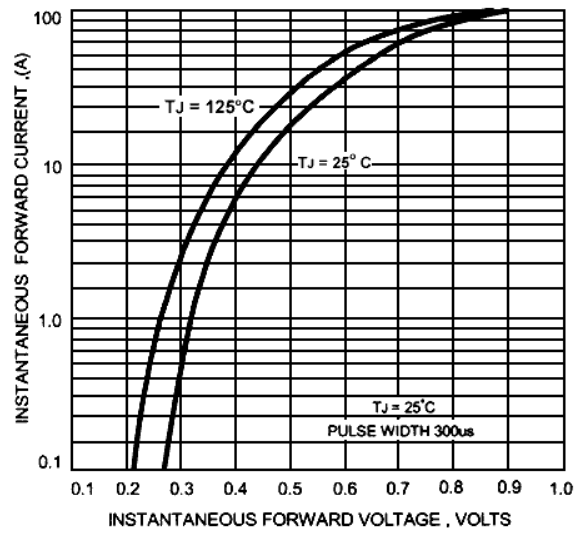


FIG.5 - TYPICAL JUNCTION CAPACITANCE

