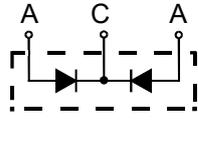
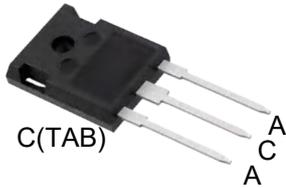


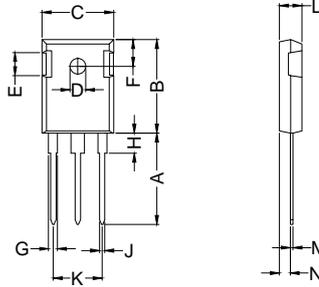
# MBR60100PT thru MBR60200PT

## 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	0.620	0.640
ØD	3.15	3.65	0.124	0.144
E	4.32	5.49	0.170	0.216
F	5.40	6.30	0.213	0.248
G	1.65	2.18	0.065	0.086
H	3.80	4.50	0.150	0.177
J	1.00	1.40	0.039	0.055
K	10.80	11.10	0.425	0.437
L	4.70	5.30	0.185	0.209
M	0.40	0.80	0.016	0.031
N	1.50	2.49	0.059	0.098

	VRRM V	VRMS V	VDC V
MBR60100PT	100	70	100
MBR60150PT	150	105	150
MBR60200PT	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	100	V
		0.80	
		0.70	
		0.95	
IR	Maximum DC Reverse Current At Rated DC Blocking Voltage @TJ=25°C @TJ=100°C	1.0 50	mA
RθJC	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 conducton
- \* 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 whelling, 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



**Sirectifier®**

# MBR60100PT thru MBR60200PT

## High T<sub>jm</sub> Low IRRM Schottky Barrier Diodes

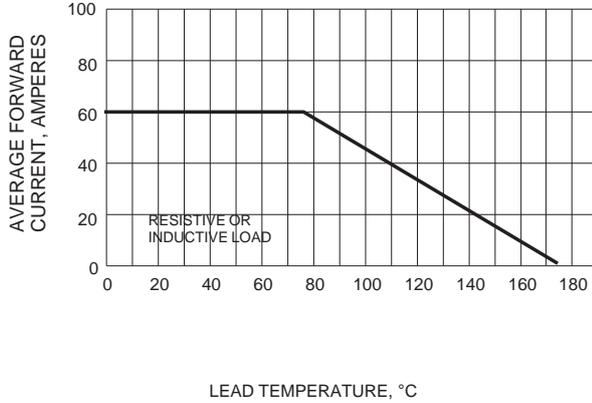


Fig.1 FORWARD CURRENT DERATING CURVE

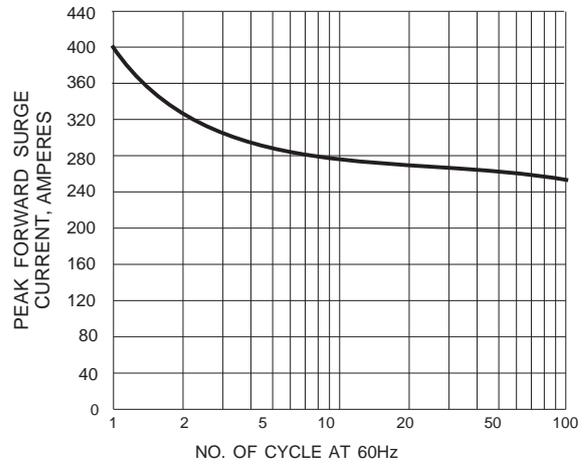


Fig.2 MAXIMUM NON-REPETITIVE SURGE

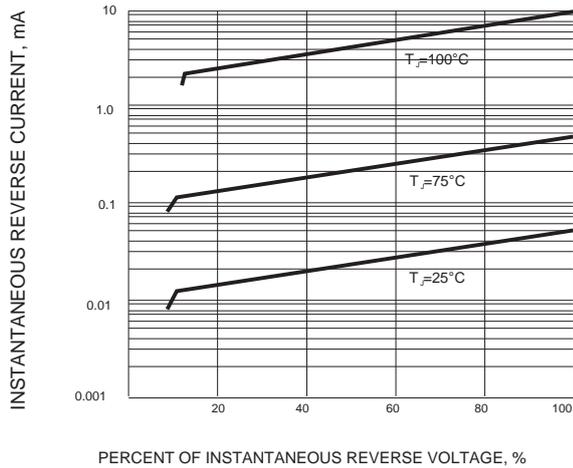


Fig.3 TYPICAL REVERSE CHARACTERISTIC

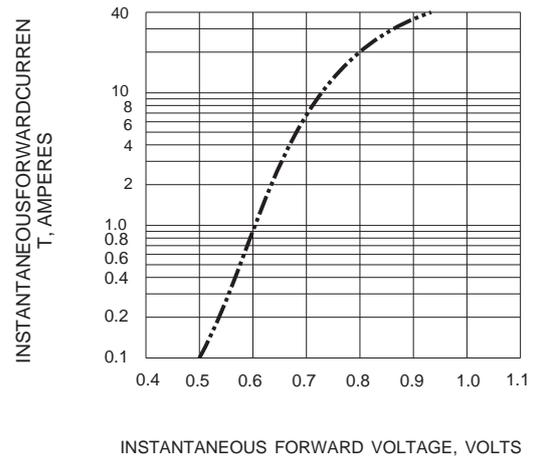


Fig.4 TYPICAL INSTANTANEOUS FORWARD

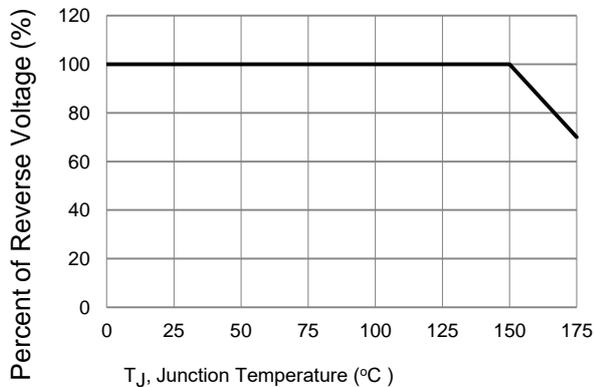
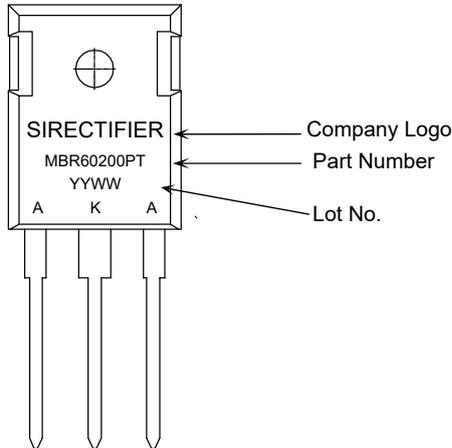


Fig.5 Operating Temperature Derating Curve

# MBR60100PT thru MBR60200PT

## High Tjm Low IRRM Schottky Barrier Diodes

### MARKING



### ORDERING INFORMATION

Part Number	Package	Shipping	Marking Code
MBR60100PT	TO-247AD	30pcs / Tube	MBR60100PT
MBR60150PT	TO-247AD	30pcs / Tube	MBR60150PT
MBR60200PT	TO-247AD	30pcs / Tube	MBR60200PT