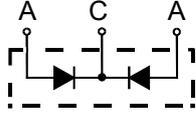
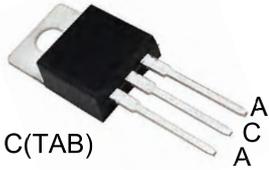
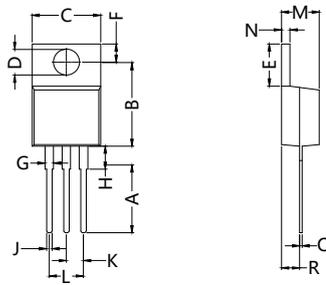


MBR1050CT thru MBR1060CT

High T_{jm} Low IRRM Schottky Barrier Diodes



Dimensions TO-220AB



Dim.	Millimeter	
	Min.	Max.
A	12.70	13.97
B	14.73	16.00
C	9.91	10.66
∅D	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



A=Anode, C=Cathode, TAB=Cathode

	V _{RRM}	V _{RMS}	V _{DC}
	V	V	V
MBR1050CT	50	35	50
MBR1060CT	60	42	60

Symbol	Characteristics	Maximum Ratings	Unit
I _(AV)	Maximum Average Forward Rectified Current @T _c =105°C	10	A
I _{FSM}	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	125	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 =125°C	0.65 0.80 0.90	V
I _R	Maximum DC Reverse Current At Rated DC Blocking Voltage @T _J =25°C @T _J =125°C	0.1 15	mA
R _{θJC}	Typical Thermal Resistance (Note 2)	3.0	°C/W
C _J	Typical Junction Capacitance Per Element (Note 3)	220	pF
T _J	Operating Temperature Range	-55 to +150	°C
T _{STG}	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 V_F
- *High surge capacity
- *For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- *RoHS compliance

MECHANICAL DATA

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

Sirectifier[®]

MBR1050CT thru MBR1060CT

High T_{jm} Low IRRM Schottky Barrier Diodes

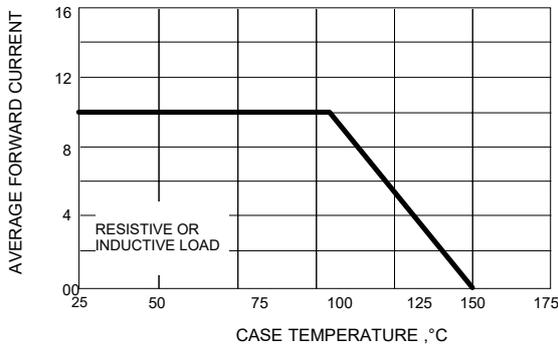


FIG.1 - FORWARD CURRENT DERATING CURVE

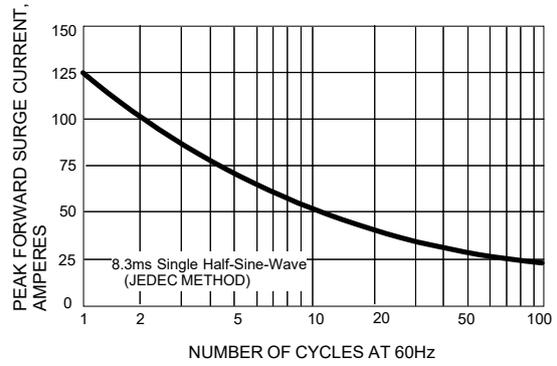


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

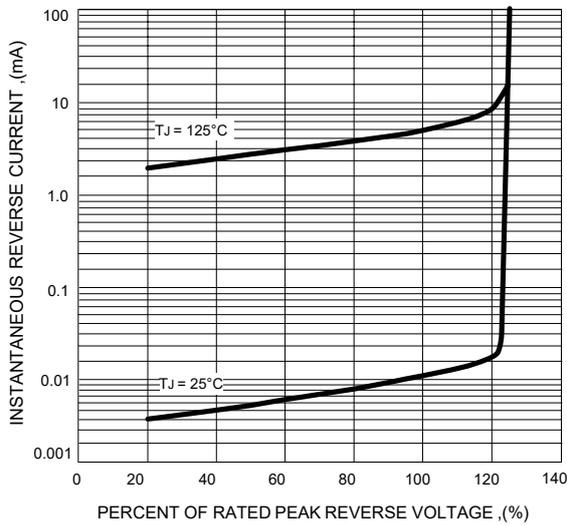


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

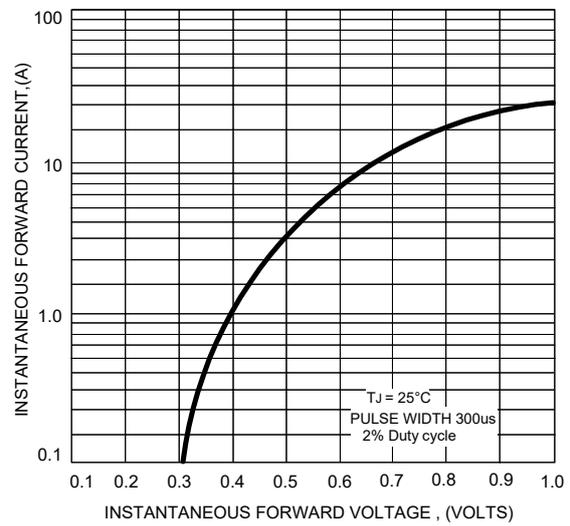


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

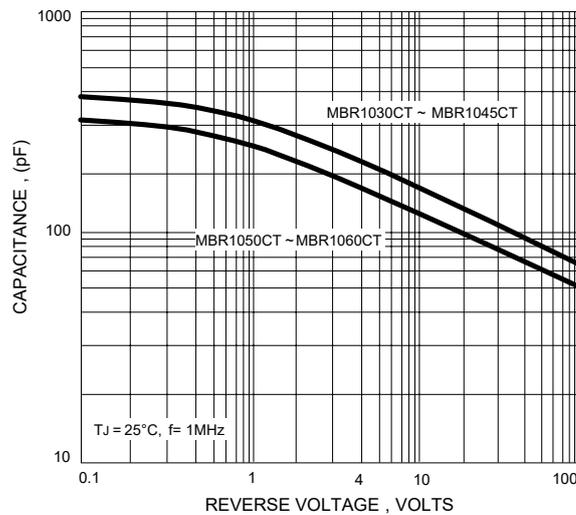


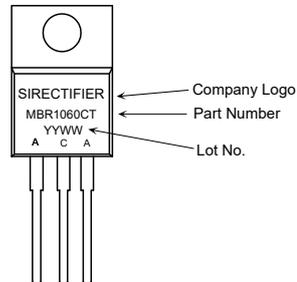
FIG.5 - TYPICAL JUNCTION CAPACITANCE



MBR1050CT thru MBR1060CT

High T_{jm} Low IRRM Schottky Barrier Diodes

Marking



Ordering Information

Part Number	Package	Shipping	Marking Code
MBR1050CT	TO-220AB	50pcs / Tube	MBR1050CT
MBR1060CT	TO-220AB	50pcs / Tube	MBR1060CT