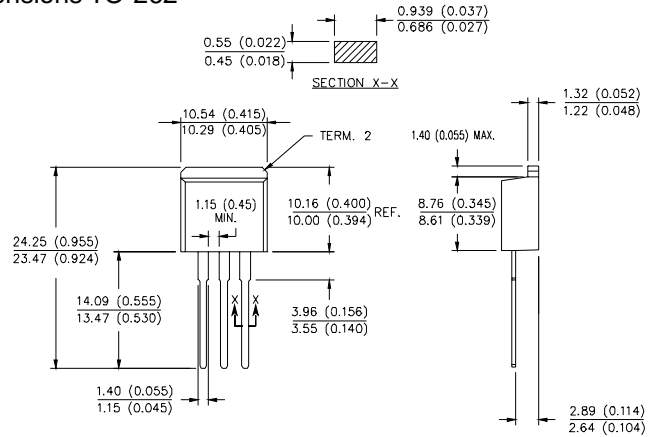
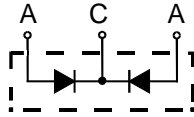


MBR3060CT

SCHOTTKY RECTIFIER

Dimensions TO-262



	V_{RRM}	V_{RMS}	V_{DC}
	V	V	V
MBR3060CT	60	42	60

Symbol	Characteristics	Maximum Ratings	Unit
$I_{(AV)}$	Maximum Average Forward Rectified Current @ $T_C=105^\circ\text{C}$	30	A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	260	A
dv/dt	Voltage Rate Of Change (Rated V_R)	10000	V/us
V_F	Maximum Forward Voltage (Note 1)	$I_F=15\text{A}$ @ $T_J=25^\circ\text{C}$ 0.62 $I_F=30\text{A}$ @ $T_J=125^\circ\text{C}$ 0.82 $I_F=15\text{A}$ @ $T_J=125^\circ\text{C}$ 0.56 $I_F=30\text{A}$ @ $T_J=125^\circ\text{C}$ 0.71	V
I_R	Maximum DC Reverse Current At Rated DC Blocking Voltage	$@T_J=25^\circ\text{C}$ 0.80 $@T_J=125^\circ\text{C}$ 45	mA
R_{thJC}	Typical Thermal Resistance (Note 2)	3.25	$^\circ\text{C/W}$
C_T	Typical Junction Capacitance Per Element (Note 3)	720	pF
T_J	Operating Temperature Range	-55 to +150	$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-55 to +150	$^\circ\text{C}$

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 V_F
- * 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

MECHANICAL DATA

- * Case: TO-220AB molded plastic
- * Polarity: As marked on the body
- * Weight: 0.08 ounces, 2.24 grams
- * Mounting position: Any



MBR3060CT

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FIG.1 - FORWARD CURRENT DERATING CURVE

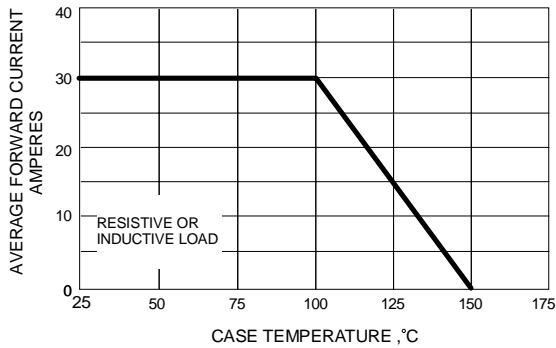


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

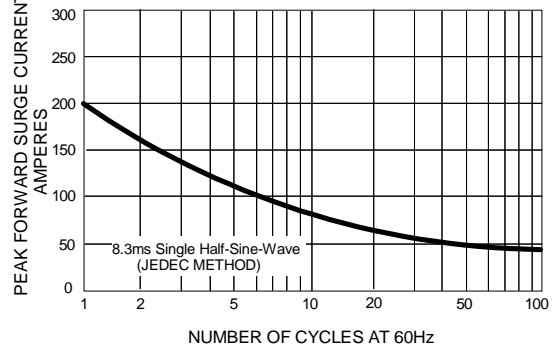


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

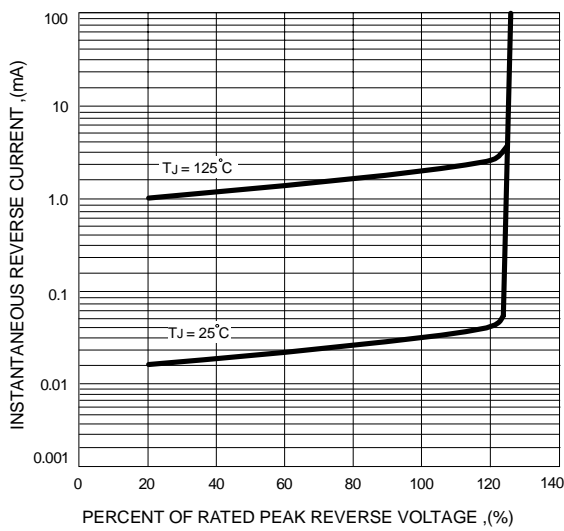


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

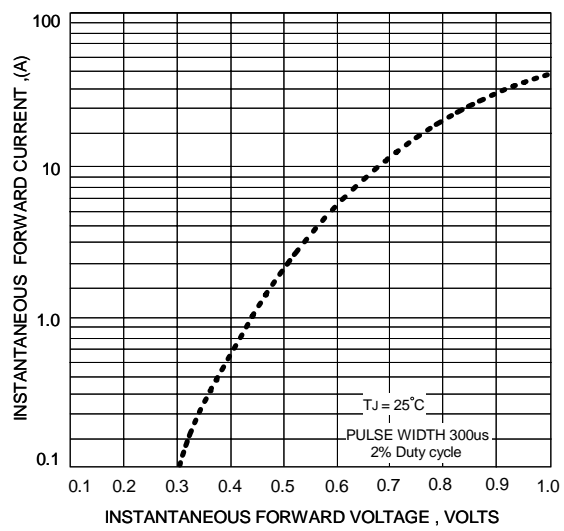


FIG.5 - TYPICAL JUNCTION CAPACITANCE

