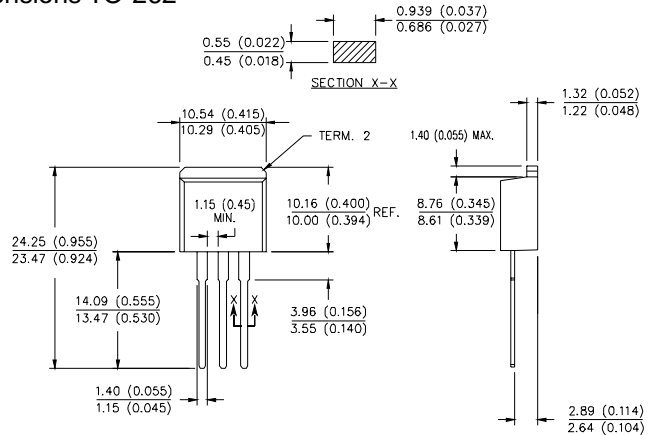
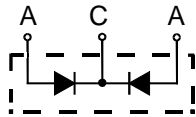


MBR3060CT

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°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 =15A @T _J =25°C I _F =30A @T _J =125°C I _F =15A @T _J =125°C I _F =30A @T _J =125°C	0.62 0.82 0.56 0.71	V
I _R	Maximum DC Reverse Current At Rated DC Blocking Voltage	@T _J =25°C @T _J =125°C	0.80 45	mA
R _{thJC}	Typical Thermal Resistance (Note 2)		3.25	°C/W
C _T	Typical Junction Capacitance Per Element (Note 3)		720	pF
T _J	Operating Temperature Range		-55 to +150	°C
T _{stg}	Storage Temperature Range		-55 to +150	°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



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FIG.1 - FORWARD CURRENT DERATING CURVE

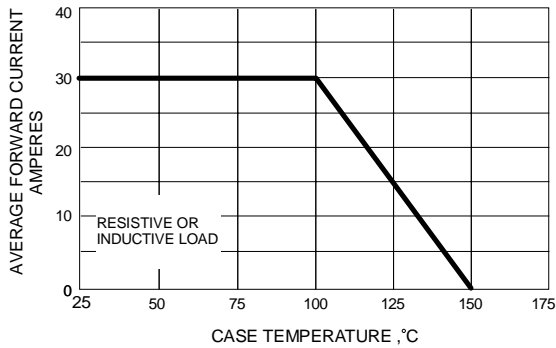


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

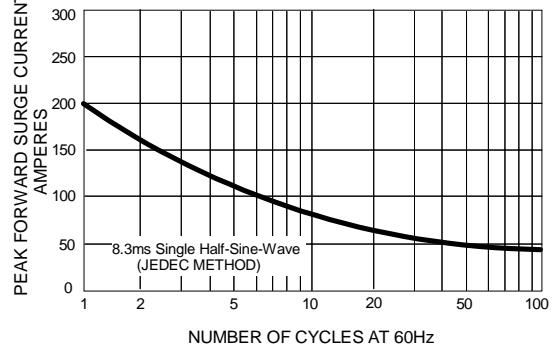


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

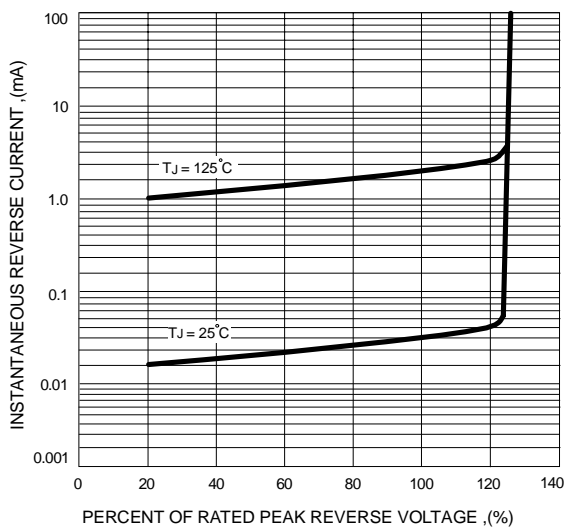


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

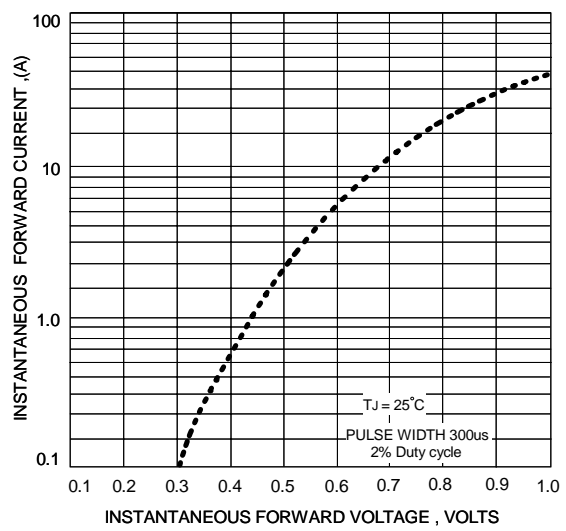


FIG.5 - TYPICAL JUNCTION CAPACITANCE

