

Features:

- Schottky barrier chip
- Guard ring for over voltage protection
- Low power loss, high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0

Mechanical Data:

Case	: TO-220AB molded plastic
Polarity	: As marked on the body
Weight	: 0.08 ounces, 2.24 grams
Mounting Position	: Any
Reverse Voltage	: 60 Volts
Forward Current	: 20 Amperes

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	Values	Unit
Max. Recurrent Peak Reverse Voltage	V _{RRM}	60	V
Max. RMS Voltage	V _{RMS}	42	
Max. DC Blocking Voltage	V _{DC}	60	
Max. Average Forward Rectified Current	I _(AV)	20	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	150	
Peak Forward Voltage (Note1) I _F =10A @T _J =25°C I _F =10A @T _J =125°C I _F =20A @T _J =25°C I _F =20A @T _J =125°C	V _F	0.8 0.7 0.95 0.85	V
Max. DC Reverse Current T _J =25°C Rated DC Blocking Voltage T _J =125°C	I _R	0.1 10	mA
Typical Junction Capacitance (Note 2)	C _J	320	pF
Typical Thermal Resistance (Note 3)	R _{θJC}	1.5	°C/W
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +175	°C

Notes:

1. 300µs pulse width, 2% duty cycle.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
3. Thermal resistance junction to case.
4. The typical data above is for reference only

Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

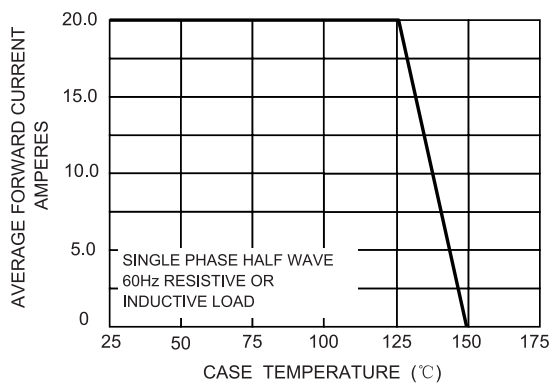


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

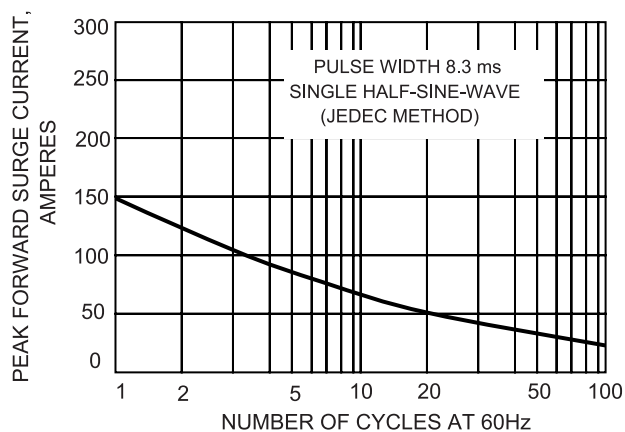


FIG.3-TYPICAL REVERES CHARACTERISTICS

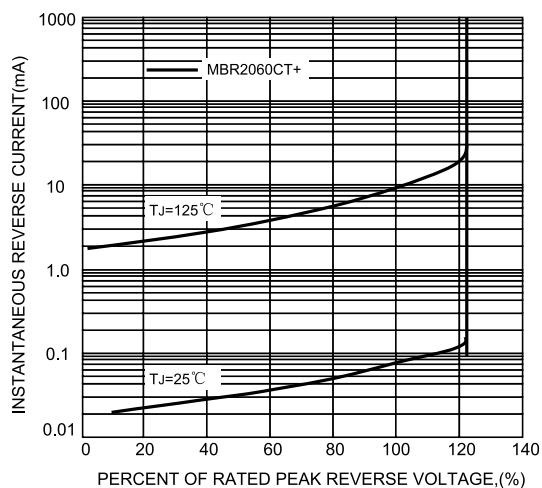


FIG.4-TYPICAL FORWARD CHARACTERISTICS

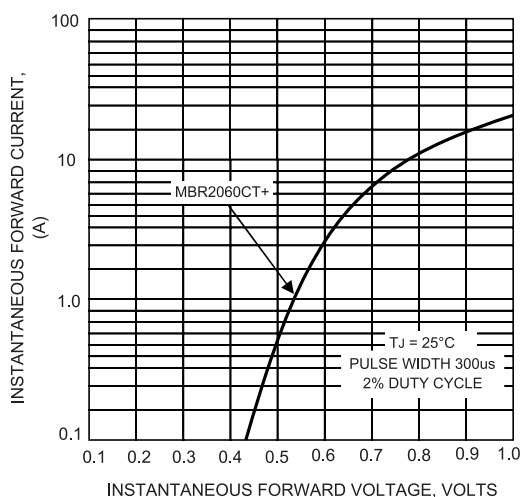
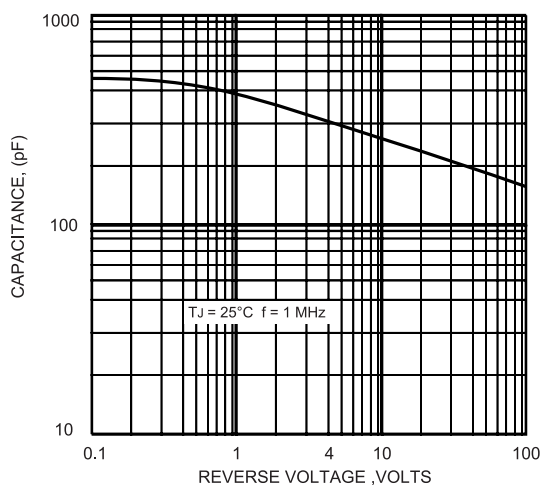
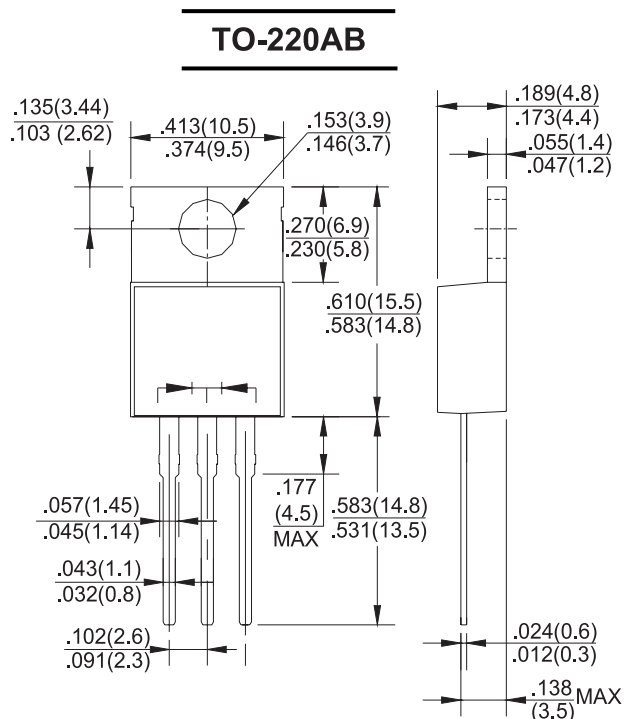


FIG.5 – TYPICAL JUNCTION CAPACITANCE



Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Schottky Barrier Rectifiers	MBR2060CT+

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