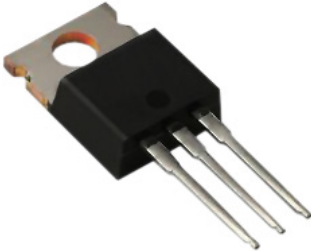


Schottky Barrier Rectifier



RoHS
Compliant



Features:

- Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- Low power loss, high efficiency
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data:

Case	: ITO-220AB molded plastic
Polarity	: As marked on the body
Weight	: 0.055 ounces, 1.5615 grams
Mounting Position	: Any
Terminals	: solder plated, solderable per MIL-STD-750, method 2026
Reverse Voltage	: 200 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}	200	V
Max. RMS Voltage	V_{RMS}	140	
Max. DC Blocking Voltage	V_{DC}	200	
Max. Average Forward Rectified Current (See Fig.1)	$I_{(AV)}$	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) $I_F = 10A @ T_A = 25^\circ C$ $I_F = 10A @ T_A = 125^\circ C$ $I_F = 20A @ T_A = 25^\circ C$ $I_F = 20A @ T_A = 25^\circ C$	V_F	0.95 0.85 1.05 0.95	V
Max. DC Reverse Current at Rated DC Blocking Voltage at $T_J = 25^\circ C$ $T_J = 125^\circ C$	I_R	0.05 20	mA
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	2	°C/W
Operating Temperature Range	T_J	-65 to +175	°C
Storage Temperature Range	T_{STG}		

Notes:

1. Both Bonding and Chip structure are available.
2. The typical data above is for reference only

Ratings and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

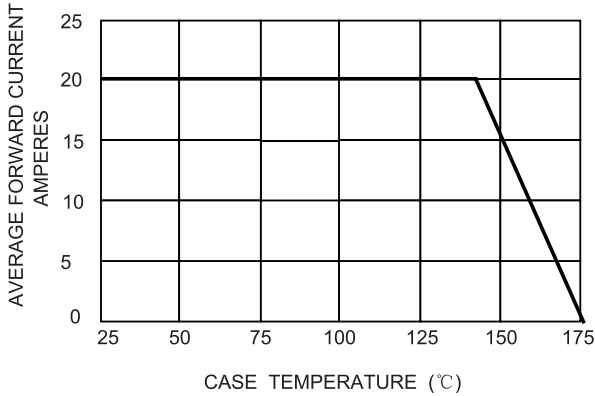


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

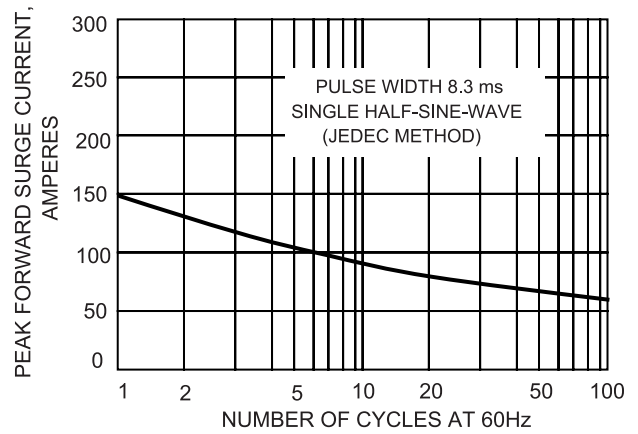


FIG.3-TYPICAL REVER CHARACTERISTICS

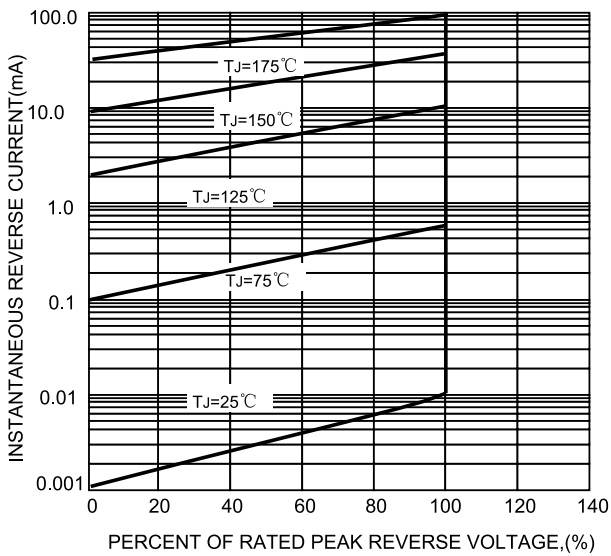
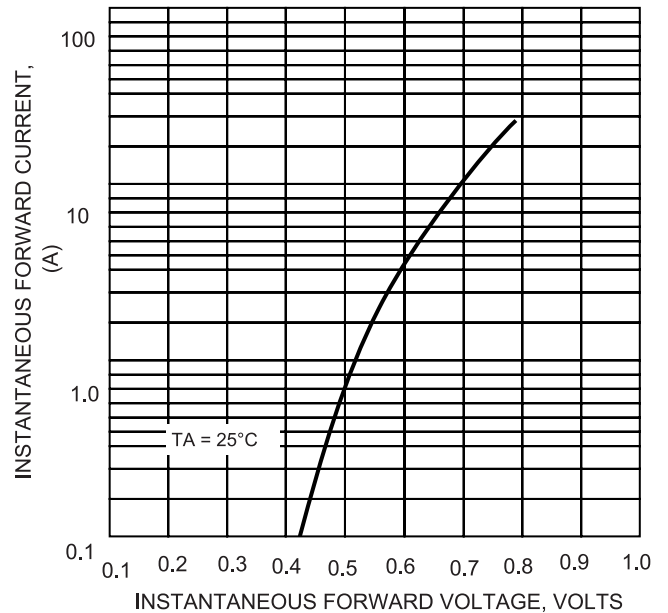
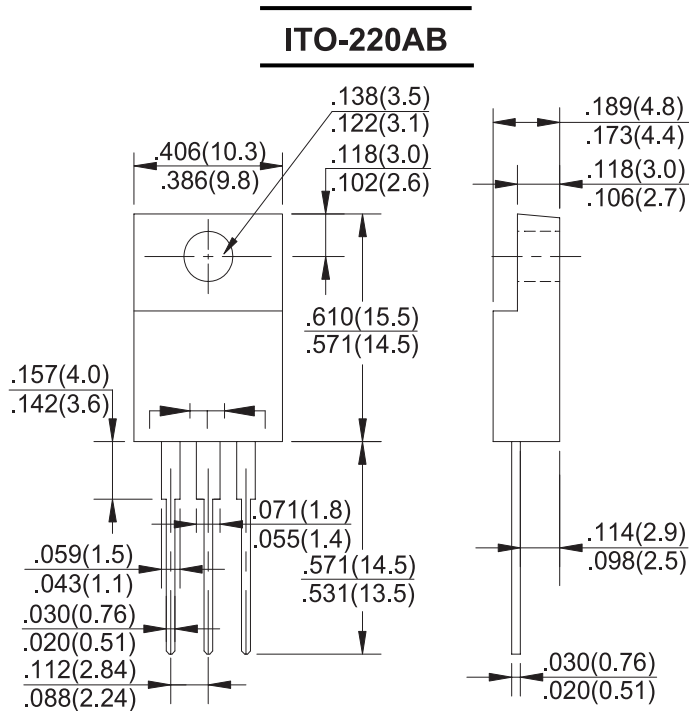


FIG.4-TYPICAL FORWARD CHARACTERISTICS



Schottky Barrier Rectifier

Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Schottky Barrier Rectifier	MBRF20200CT

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