# Schottky Barrier Rectifier





#### Features:

- · Metal of silicon rectifier, majority carrier conduction
- · Guard ring for transient protection
- · Low power loss, high efficiency
- · High current capability, low VF
- 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 : 0.08 ounces, 2.24 grams

Mounting Position : Any
Reverse Voltage : 100 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	VRRM	100	
Max. RMS Voltage	VRMS	70	V
Max. DC Blocking Voltage	VDC	100	
Max. Average Forward Rectified Current (See Fig.1)	I(AV)	20	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	Ifsm	150	A
Peak Forward Voltage (Note 1)	°C V <sub>F</sub>	0.85 0.75 0.95 0.85	V
Max. DC Reverse Current at $T_J = 25^{\circ}C$ Rated DC Blocking Voltage at $T_J = 125^{\circ}C$	lR	0.1 7.5	mA
Typical Junction Capacitance (Note 2)	Cı	320	pF
Typical Thermal Resistance (Note 3)	Rejc	3.5	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Тѕтс	-55 to +175	°C

#### Notes:

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

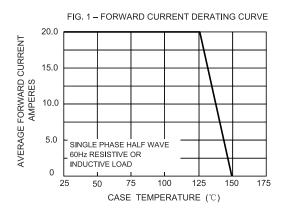
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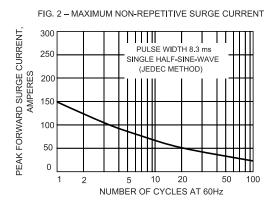


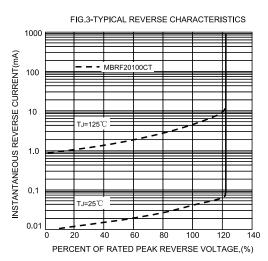
# Schottky Barrier Rectifier multicomp PRO

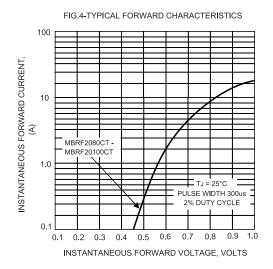


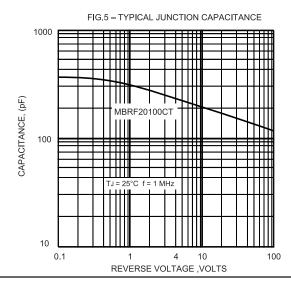
# **Ratings and Characteristic Curves**











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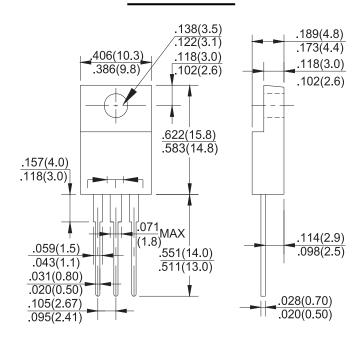


# Schottky Barrier Rectifier



## **Dimensions:**

# **ITO-220AB**



Dimensions: Inches (Millimetres)

#### Part Number Table

Description	Part Number	
Schottky Barrier Rectifier	MBRF20100CT	

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