# Schottky Barrier Rectifier multicomp PRO





### 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 : TO-220AC molded plastic Polarity : As marked on the body Weight : 0.08 ounces, 2.24 grams

Mounting Position : Any Reverse Voltage : 100 Volts Forward Current : 16 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  | I(AV)  | 16           |      |
| Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load (JEDEC Method) | İFSM   | 150          | A    |
| Peak Forward IF = 16A @ TJ = 25°C   Voltage (Note 1) IF = 16A @ TJ = 25°C                               | VF     | 0.85<br>0.75 | V    |
| Max. DC Reverse Current at $T_J = 25^{\circ}C$ Rated DC Blocking Voltage at $T_J = 125^{\circ}C$        | lr     | 0.3<br>7.5   | mA   |
| Typical Junction Capacitance (Note 2)   | Cı     | 500          | pF   |
| Typical Thermal Resistance (Note 3)   | Rejc   | 3            | °C/W |
| Operating Temperature Range   | TJ     | -55 to +150  | °C   |
| Storage Temperature Range   | Тѕтс   | -55 to +150  | °C   |

### Notes:

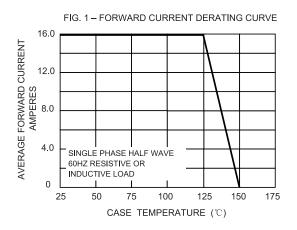
- 1. 300µs pulse width,2% duty cycle.
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to case.
- 4. The typical data above is for reference only

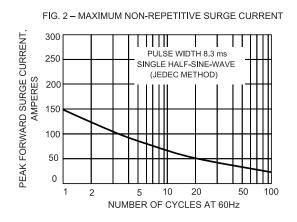
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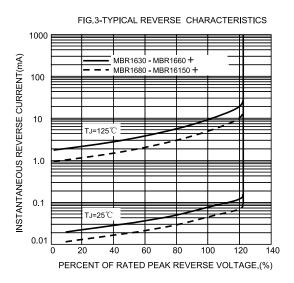


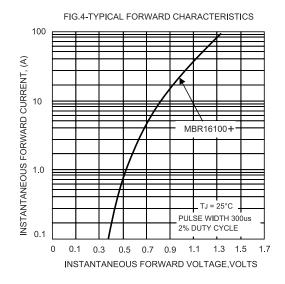
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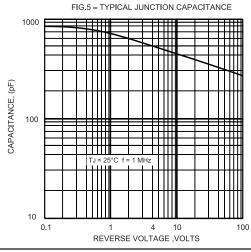
## **Ratings and Characteristic Curves**











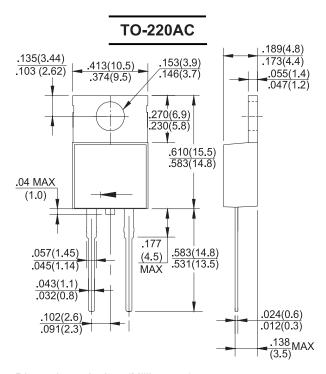
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## **Dimensions:**



Dimensions: Inches (Millimetres)

## **Part Number Table**

| Description                 | Part Number |  |
|-----------------------------|-------------|--|
| Schottky Barrier Rectifiers | MBR16100+   |  |

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