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 | : 40 to 60 Volts |
| Forward Current | : 8 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%.

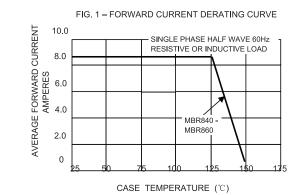
| Characteristics | Symbol | MBR840 | MBR850 | MBR860 | Unit |
|---|--------|---------------------|--------------------|--------|------|
| Max. Recurrent Peak Reverse Voltage | | 40 | 50 | 60 | |
| Max. RMS Voltage | | 28 | 35 | 42 | V |
| Max. DC Blocking Voltage | VDC | 40 | 50 | 60 | |
| Max. Average Forward Rectified Current (See Fig.1) | l(AV) | | 8.0 | · | |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method) | Іғѕм | | 150 | | A |
| Peak Forward Voltage (Note1) IF=8A @TJ=25°C IF=8A @TJ=125°C IF=16A @TJ=25°C | VF | 0.7 0.57 0.84 | 0.8 0.7 0.95 | | V |
| Max. DC Reverse Current at $T_A = 25^{\circ}C$ Rated DC Blocking Voltage at $T_A = 125^{\circ}C$ | IR | 0.1 15 | | mA | |
| Typical Junction Capacitance (Note 2) | | 250 | | pF | |
| Typical Thermal Resistance (Note 3) | | 3 | | °C/W | |
| Operating Temperature Range | | -55 to +150 | | °C | |
| Storage Temperature Range | | -55 to +175 | | °C | |

Notes:

- 1. 300µs pulse width,2% duty cycle.
- 2. Measured at1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to case
- 4. The typical data above is for reference only

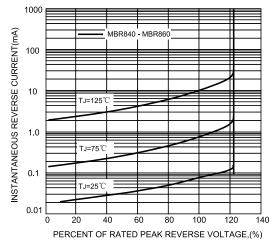
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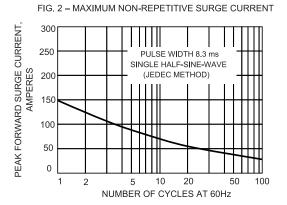




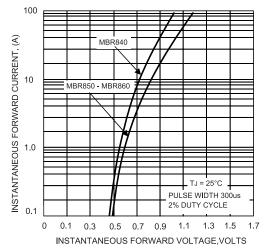
Ratings and Characteristic Curves



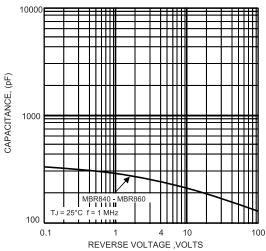










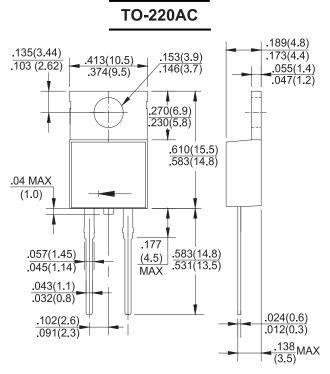


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Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

| Description | Part Number | |
|-----------------------------|-------------|--|
| | MBR840 | |
| Schottky Barrier Rectifiers | MBR850 | |
| | MBR860 | |

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