# 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%.

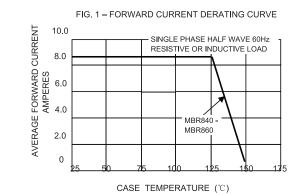
Characteristics	Symbol	MBR840	MBR850	MBR860	Unit
Max. Recurrent Peak Reverse Voltage		40	50	60	
Max. RMS Voltage		28	35	42	V
Max. DC Blocking Voltage	VDC	40	50	60	
Max. Average Forward Rectified Current (See Fig.1)	l(AV)		8.0	·	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on 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

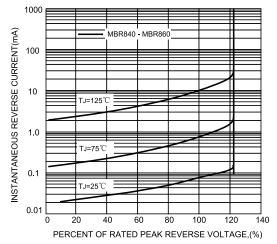
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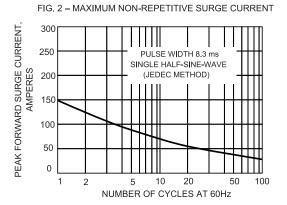




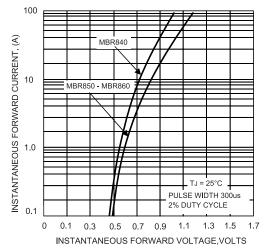
### **Ratings and Characteristic Curves**



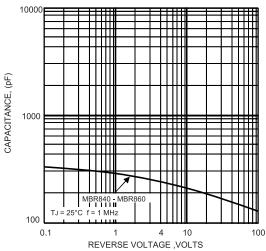










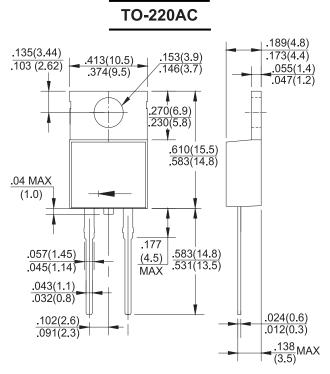


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## **Dimensions:**



Dimensions : Inches (Millimetres)

## Part Number Table

Description	Part Number	
	MBR840	
Schottky Barrier Rectifiers	MBR850	
	MBR860	

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