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 : 40 to 100 Volts Forward Current : 10 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	MBR10100	MBR1040	MBR1050	MBR1060	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	100	40	50	60	
Max. RMS Voltage	VRMS	70	28	28 35 42		V
Max. DC Blocking Voltage	VDC	100	40	50	60	
Max. Average Forward Rectified Current (See Fig.1)	I(AV)	10				
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	150			A	
Peak Forward Voltage (Note1)	VF	0.85 0.71 - -	7 0.57 0.84 0.72	0.		V
Max. DC Reverse Current at $T_A = 25^{\circ}C$ Rated DC Blocking Voltage at $T_A = 125^{\circ}C$	lR	0.1 6	0.1 15	0 1	.1	mA
Typical Junction Capacitance (Note 2)	Сл	1100	400		pF	
Typical Thermal Resistance (Note 3)	Rejc	2	2.5			°C/W
Operating Temperature Range	TJ	-55 to +150			°C	
Storage Temperature Range	Тsтg	-55 to +175			°C	

Notes:

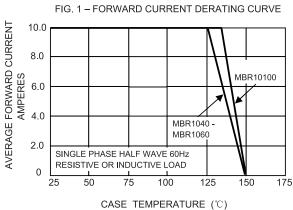
- 1. 300µs pulse width,2% duty cycle.
- 2. Measured at1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to case
- 4. The typical data above is for reference only

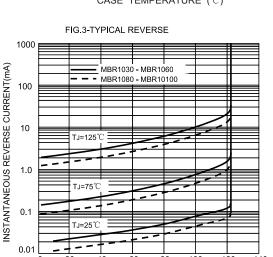
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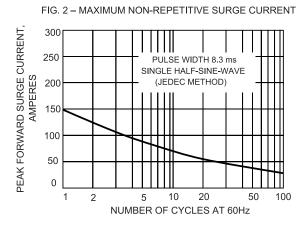
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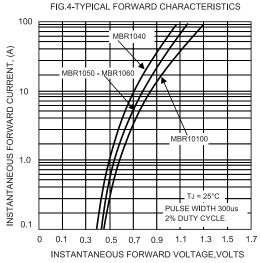
Ratings and Characteristic Curves

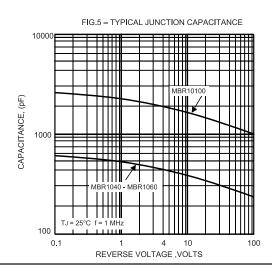




PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)







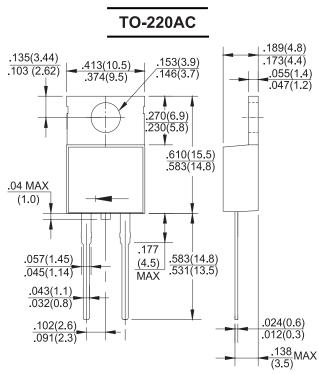
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Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number		
Schottky Barrier Rectifiers	MBR1040		
	MBR1050		
	MBR1060		
	MBR10100		

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