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 : 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	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)	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) IF=10A @TJ=25°C IF=10A @TJ=125°C IF=20A @TJ=25°C IF=20A @TJ=125°C	VF	0.85 0.71 - -	V
Max. DC Reverse Current at $T_A = 25^{\circ}C$ Rated DC Blocking Voltage at $T_A = 125^{\circ}C$	IR	0.1 6	mA
Typical Junction Capacitance (Note 2)	Сл	1100	pF
Typical Thermal Resistance (Note 3)	Rejc	2	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Тѕтс	-55 to +175	°C

Notes:

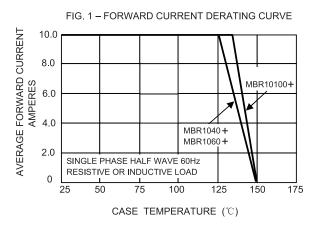
- 1. 300µs pulse width,2% duty cycle.
- 2. Measured at1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to case
- 4. The typical data above is for reference only

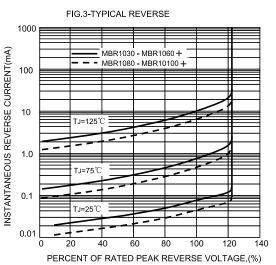
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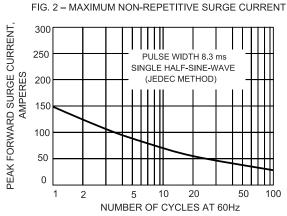


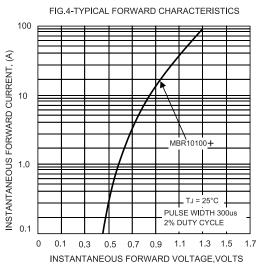
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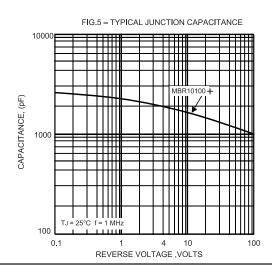
Ratings and Characteristic Curves











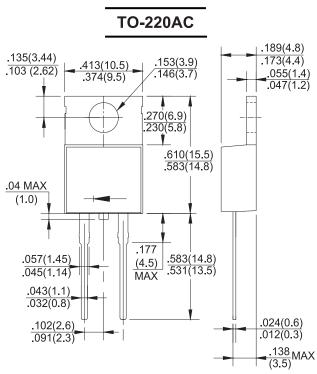
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Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number	
Schottky Barrier Rectifiers	MBR10100+	

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