## Superfast Recovery Rectifier multicomp



RoHS

**Compliant** 



#### Features:

- Schottky barrier chip
- Guard ring for over voltage protection
- Low forward voltage drop
- Low reverse leakage current
- High surge current capability
- Plastic package has UL flammability classification 94V-0

### **Mechanical Data:**

Case : TO-220AC molded plastic

**Terminals** : Pure tin plated, lead solderable per MIL-STD-750, method 2026

Polarity : As marked on the body

Weight : 2.1 grams Mounting Position : Any Reverse Voltage : 150 Volts Forward Current : 10 Amperes

### **Typical Applications**

For use in high frequency rectifier of switching mode power supplies, Freewheeling Diode, DC/DC converters or polarity protection application

### **Maximum Ratings and Electrical Characteristics:**

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz.

For capacitive load, derate current by 20%.

Characteristics	Symbol	Value	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	150	
Max. RMS Voltage	VRMS	105	V
Max. DC Blocking Voltage	VDC	150	
Max. Average Forward	I(AV)	10	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	150	А
Max. Forward Voltage at 10A per leg	VF	0.92	V
Max. DC Reverse Current at $T_J = 25^{\circ}C$ Rated DC Blocking Voltage at $T_J = 125^{\circ}C$	lR	0.05 20	mA
Typical Thermal Resistance	Rejc	2.2	°C/W
Operating Temperature Range	TJ		
Storage Temperature Range	Тѕтс	-65 to +150	°C

#### Note:

1. 1. The typical data above is for reference only.

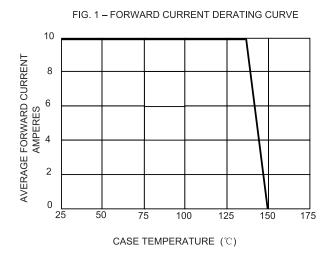
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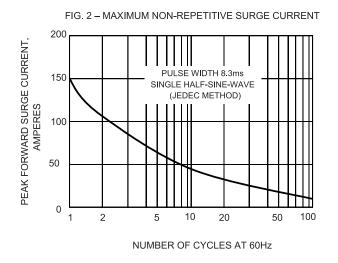


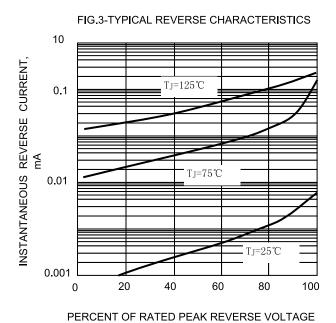
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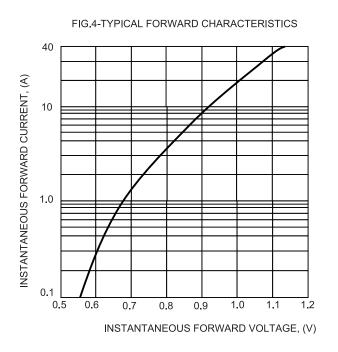


## **Ratings and Characteristic Curves**







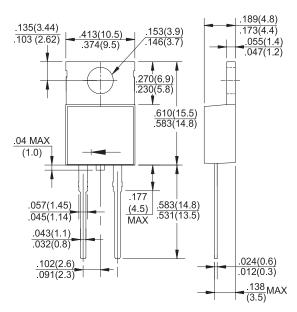


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#### **Dimensions:**

### **TO-220AC**



Dimensions: Inches (Millimetres)

### **Part Number Table**

Description	Part Number	
Superfast Recovery Rectifier	MBR10150	

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