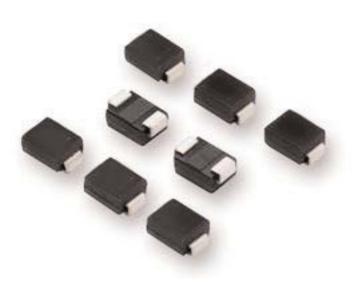
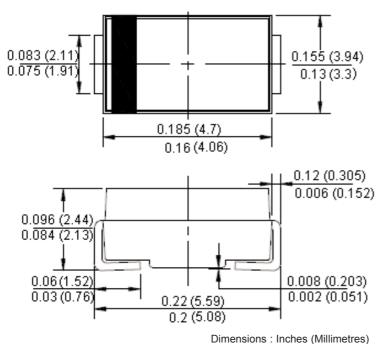
### **Schottky Barrier Rectifier**

# multicomp



Reverse Voltage - 20 V Forward Current - 1 Ampere





### **Mechanical Data**

Case	: Moulded plastic.
Polarity	: Colour band denotes cathode.
Weight	: 0.003 oz, 0.093 g.
Mounting position	: Any.

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### Features:

- For surface mounted applications.
- Metal-Semiconductor junction with guarding.
- Epitaxial construction.
- Very low forward voltage drop.
- High current capability.
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.



## **Schottky Barrier Rectifier**



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

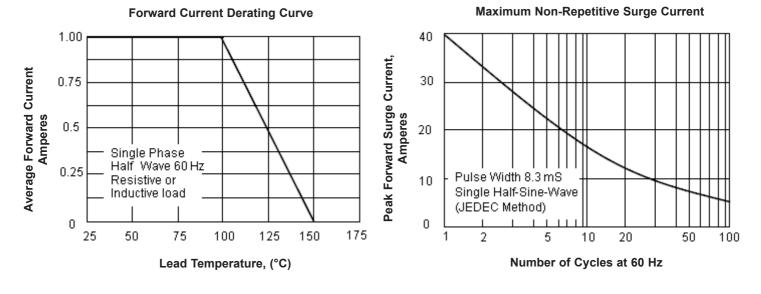
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristics	Symbol	SS12B	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	
Maximum Average Forward Rectified Current at T <sub>L</sub> = 100°C	l <sub>(AV)</sub>	1	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	IFSM	40	
Maximum Forward Voltage at 1 A dc	V <sub>F</sub>	0.45	V
Maximum DC Reverse Currentat $T_J = 25^{\circ}C$ at Rated DC Blocking Voltageat $T_J = 100^{\circ}C$	I <sub>R</sub>	1 10	mA
Typical Junction Capacitance (Note 1)	CJ	110	pF
Typical Thermal Resistance (Note 2)	R <sub>θJL</sub>	20	°C/W
Operating Temperature Range	TJ		°C
Storage Temperature Range	T <sub>STG</sub>		

**Notes :** 1. Measured at 1 MHz and applied reverse voltage of 4 V dc.

2. Thermal resistance junction to lead.

#### **Rating and Characteristics Curves**



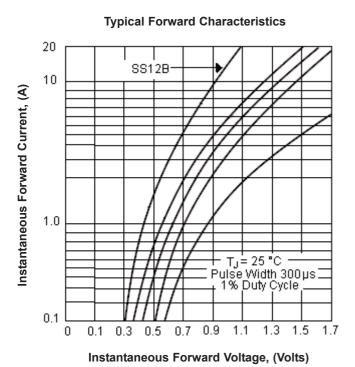
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### **Schottky Barrier Rectifier**

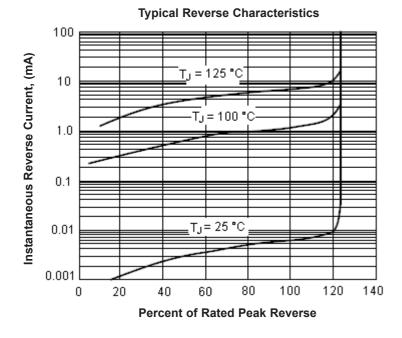


#### **Rating and Characteristics Curves**



1000 LΠ Capacitance, (pF) 100 П П = 25 °C, f= 1 MHz Ţ 10 100 0.1 10.0 1.0 4.0 **Reverse Voltage, Volts** 

**Typical Junction Capacitance** 



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