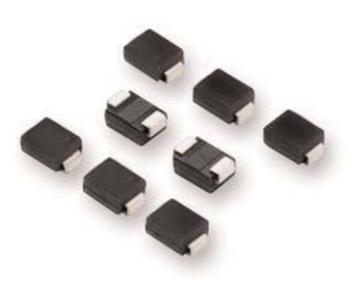
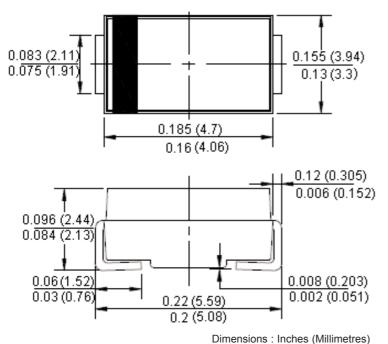
Schottky Barrier Rectifier

multicomp



Reverse Voltage - 30 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

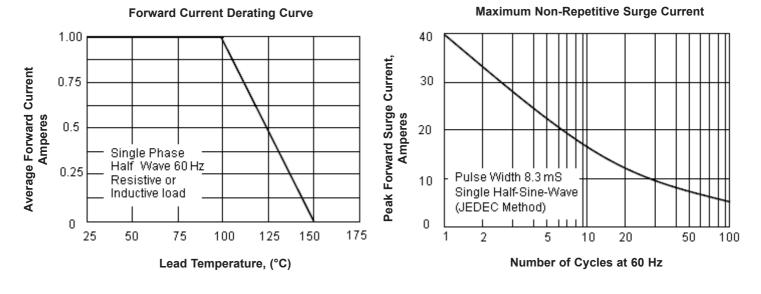
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristics	Symbol	SS13B	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	V
Maximum RMS Voltage	V _{RMS}	21	
Maximum DC Blocking Voltage	V _{DC}	30	
Maximum Average Forward Rectified Current at T _L = 100°C	I _(AV)	1	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	40	
Maximum Forward Voltage at 1 A dc	V _F	0.55	V
Maximum DC Reverse Currentat $T_J = 25^{\circ}C$ at Rated DC Blocking Voltageat $T_J = 100^{\circ}C$	۱ _R	1 10	mA
Typical Junction Capacitance (Note 1)	CJ	110	pF
Typical Thermal Resistance (Note 2)	R _{θJL}	20	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}		

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

2. Thermal resistance junction to lead.

Rating and Characteristics Curves



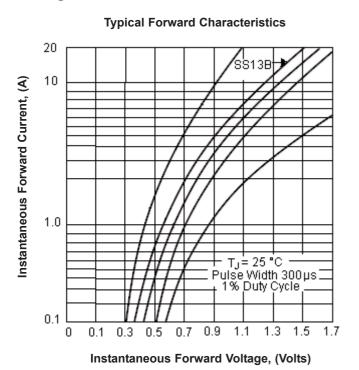
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Schottky Barrier Rectifier



Rating and Characteristics Curves



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

Typical Reverse Characteristics 100 Instantaneous Reverse Current, (mA) T_{.1} = 125 °C 10 i = 100 °C 1.0 0.1 тј = 25 °C 0.01 0.001 80 100 140 0 20 40 60 120 Percent of Rated Peak Reverse

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