

RoHS
Compliant



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.
- Reverse Voltage: 100 Volts
- Forward Current: 1 Ampere

Mechanical Data

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

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

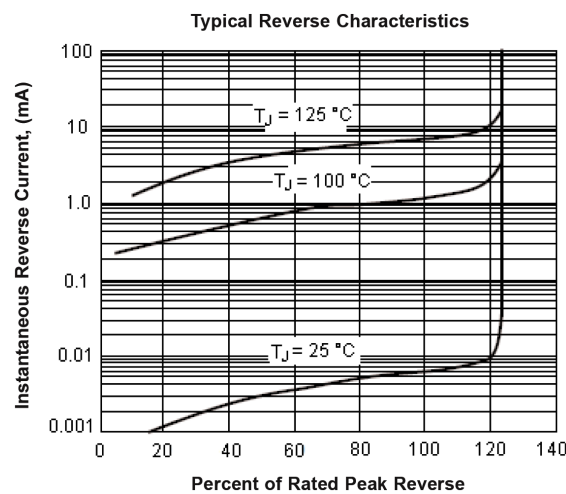
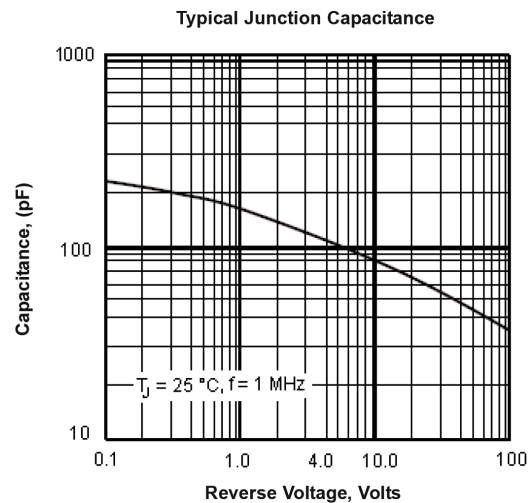
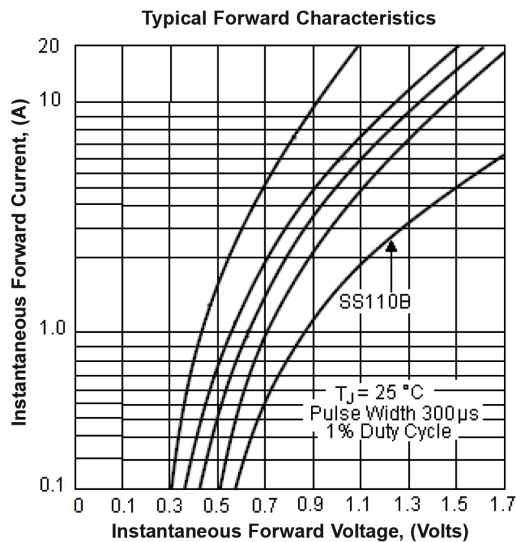
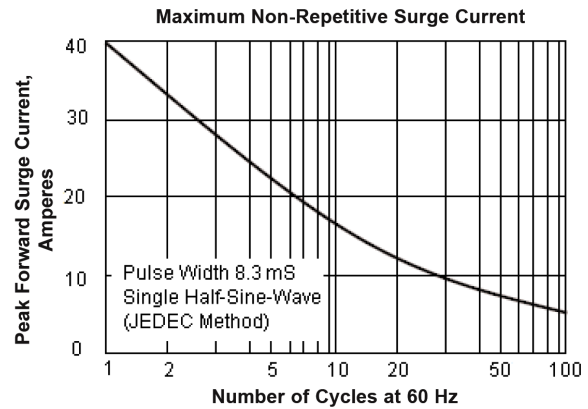
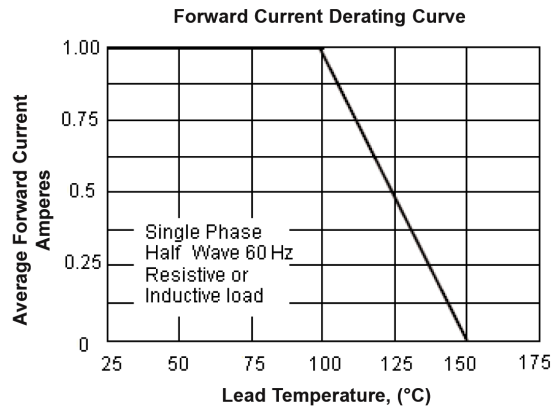
For capacitive load, derate current by 20%

Characteristics	Symbol	Values	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	
Maximum DC Blocking Voltage	V_{DC}	100	
Maximum Average Forward Rectified Current at $T_L = 100^\circ\text{C}$	$I_{(AV)}$	1	A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	40	
Maximum Forward Voltage at 1 A DC	V_F	0.85	V
Maximum DC Reverse Current at $T_J = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_J = 100^\circ\text{C}$	I_R	1 10	mA
Typical Junction Capacitance (Note 1)	C_J	110	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	20	C/W
Operating Temperature Range	T_J	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}		

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

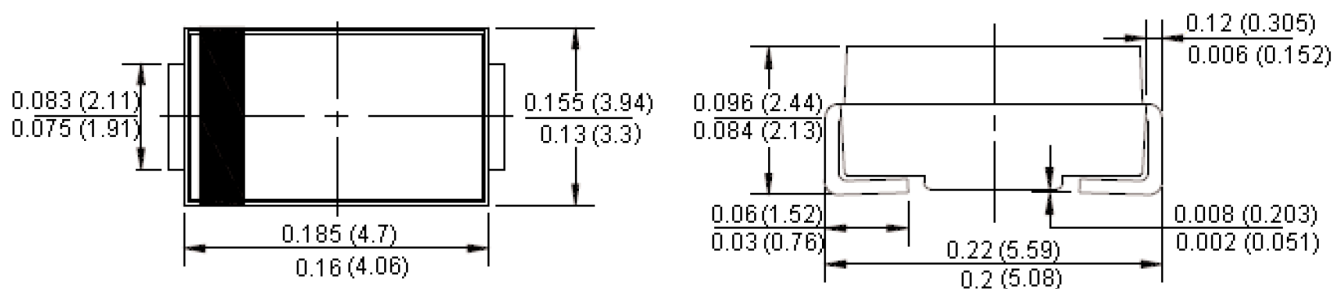
2. Thermal resistance junction to lead.

Rating and Characteristics Curves



Diagram

SMB



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Schottky Barrier Rectifier, 100V, 1A	SS110B

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