



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.

Specifications

Reverse Voltage : 30V
Forward Current : 1 Amperes
Case : Moulded plastic.
Polarity : Colour band denotes cathode.
Weight : 0.007 oz, 0.21 g.

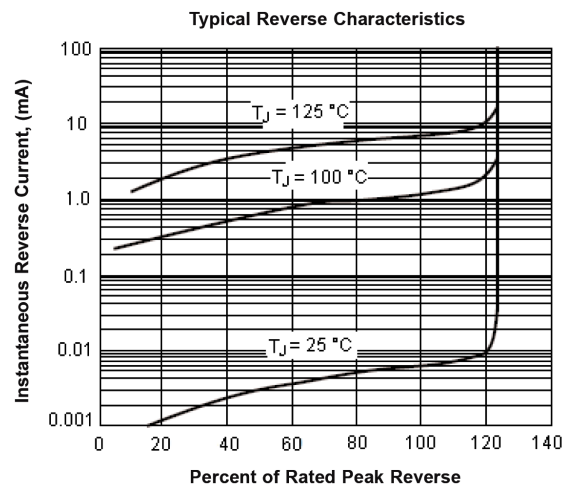
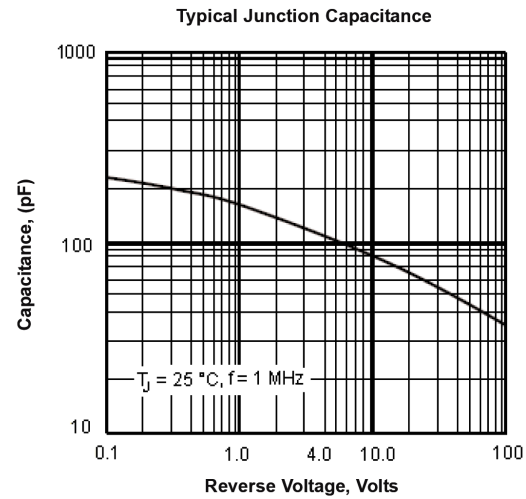
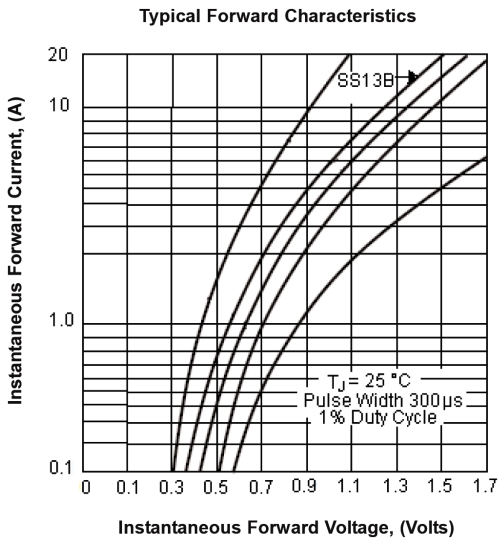
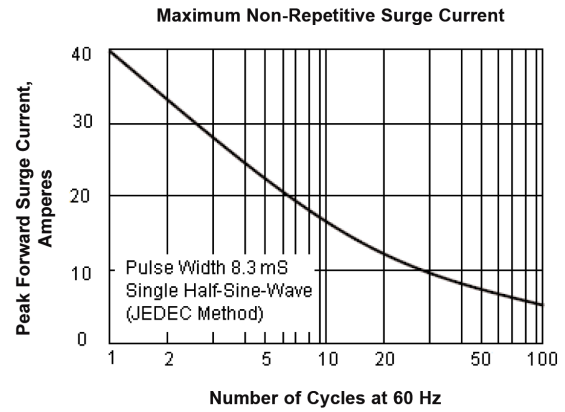
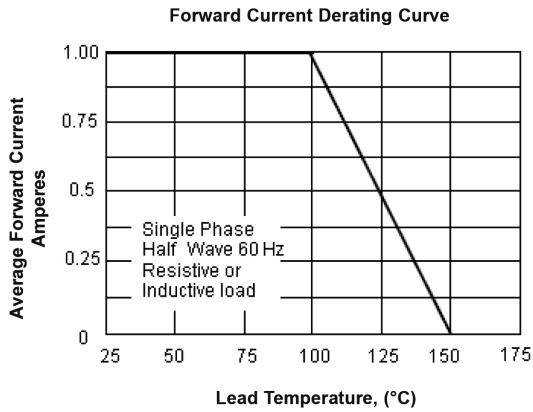
Maximum Ratings and Electrical Characteristics

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%.

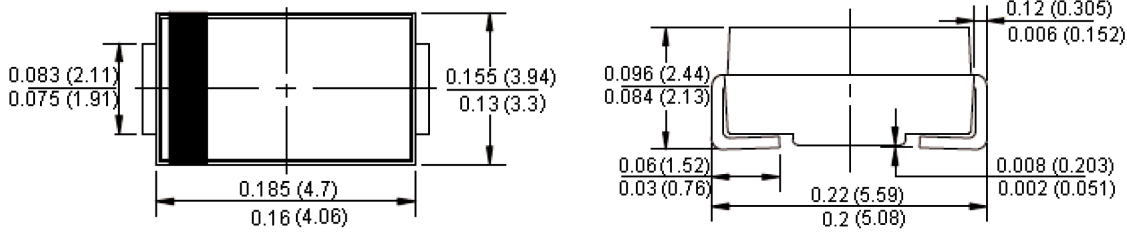
Characteristics	Symbol	Values	Unit
Max. Recurrent Peak Reverse Voltage	V _{RRM}	30	V
Max. RMS Voltage	V _{RMS}	21	
Max. DC Blocking Voltage	V _{DC}	30	
Maximum Average Forward Rectified Current at T _L = 100°C	I _(AV)	1	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated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

Notes : 1. Measured at 1MHz and applied reverse voltage of 4V DC.
2. Thermal resistance junction to ambient.

Rating and Characteristics Curves



DO-214AA (SMB)



Dimensions : Millimetres

Part Number Table

Description	Part Number
Schottky Rectifier, 30V, 1A, DO-214AA (SMB)	SS13B

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