

Surface Mount Schottky Barrier Rectifiers

multicompPRO

**RoHS
Compliant**



Features

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering: 260°C/10 seconds at terminals

Mechanical Data

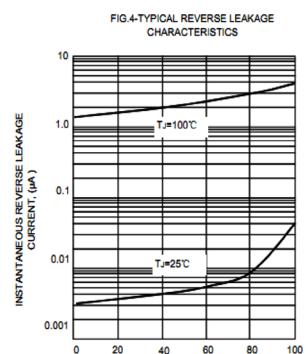
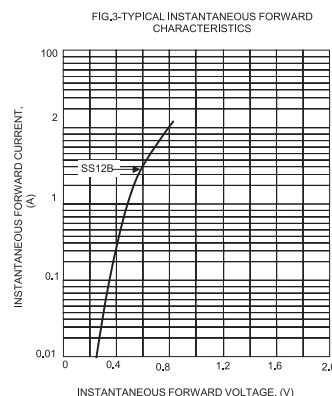
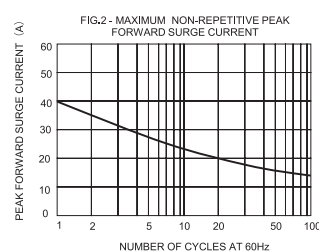
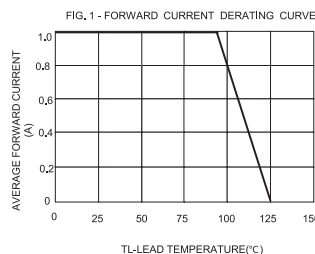
Case	: JEDEC SMB molded plastic body over passivated chip
Terminals	: Solder plated, solderable per J-STD-002B and JESD22-B102D
Polarity	: Laser band denotes cathode end
Reverse Voltage	: 20 Volts
Forward Current	: 1 Ampere

Maximum Ratings, Thermal Characteristics and Electrical Characteristics

(T_A = 25 °C unless otherwise noted)

Characteristics	Symbol	Values	Unit
Max. Repetitive Peak Reverse Voltage	V _{RRM}	20	V
Max. RMS Voltage	V _{RMS}	14	
Max. DC Blocking Voltage	V _{DC}	20	
Maximum average forward rectified current	I _{F(AV)}	1	A
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I _{FSM}	40	
Maximum instantaneous forward voltage at 1A	V _F	0.5	V
Max. DC Reverse Current at Rated DC Blocking Voltage	I _R	0.5	mA
T _A = 25°C		5	
T _A = 125°C			
Thermal resistance from junction to Lead	R _{θJL}	30	°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +125	°C

Rating and Characteristic Curves



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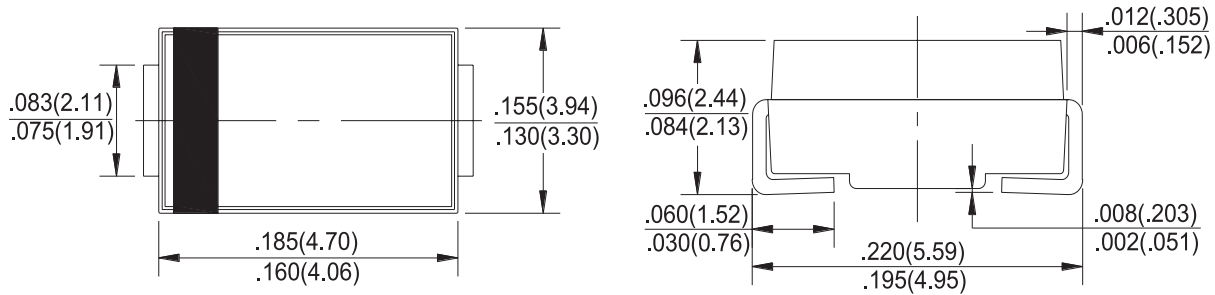
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Diagram

DO-214AA (SMB)



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Schottky Rectifier, 20V, 1A, DO-214AA (SMB), 2 Pins	SS12B

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