



Features:

- For surface mounted application
- Easy pick and place
- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low V_F
- High surge current capability
- Plastic material
- Epitaxial construction
- High temperature soldering: 260°C/10 seconds at terminals

Specifications:

Mechanical Data:

Cases	: Moulded plastic
Terminals	: Pure tin plated, lead free
Polarity	: Indicated by cathode band
Packing	: 12mm tape per EIA STD RS-481
Weight	: 0.093g

Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

Parameters	Symbol	SS22	SS23	SS25	SS29	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	50	90	V
Maximum RMS Voltage	V _{RMS}	14	21	35	63	
Maximum DC Blocking Voltage	V _{DC}	20	30	50	90	
Maximum Average Forward Rectified Current at T _L	I _(AV)	2				A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50				

Schottky Diode



Parameters	Symbol	SS22	SS23	SS25	SS29	Units
Maximum Instantaneous Forward Voltage (Note 1) I_F = 2A at 25°C at 100°C	V _F	0.5 0.4		0.7 0.65	0.85 0.7	V
Maximum DC Reverse Current at T _A = 25°C at Rated DC Blocking Voltage at T _A = 125°C	I _R	0.4			0.1	μA μA
		10		5		
Typical Junction Capacitance (Note 3)	C _j	130				pF
Typical Thermal Resistance (Note 2)	R _{θJL}	17				°C/W
	R _{θJA}	75				
Operating Temperature Range	T _J	-65 to +125		-65 to +150		°C
Storage Temperature Range	T _{STG}	-65 to +150				

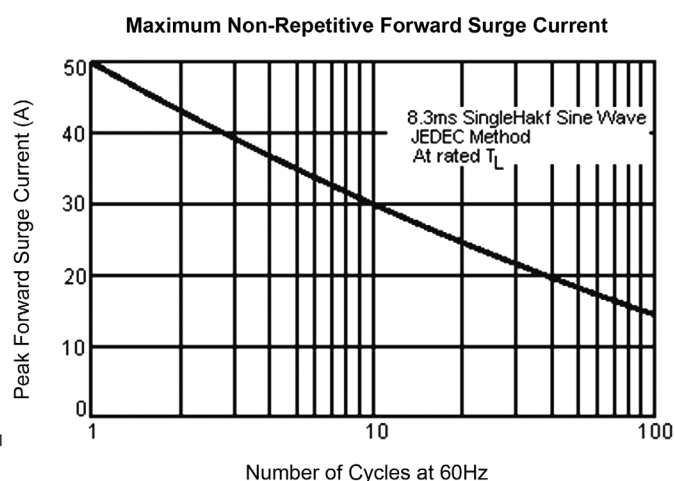
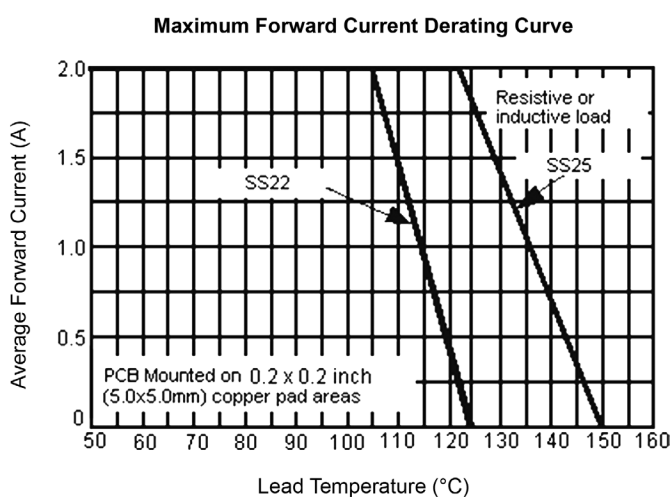
Notes:

Pulse Test with $PW = 300\mu$ seconds, 1% Duty Cycle.

2. Measured on PC Board with $0.4" \times 0.4"$ (10mm $\times$ 10mm) Copper Pad Areas.

3. Measured at 1MHz and Applied Reverse Voltage of 4V DC.

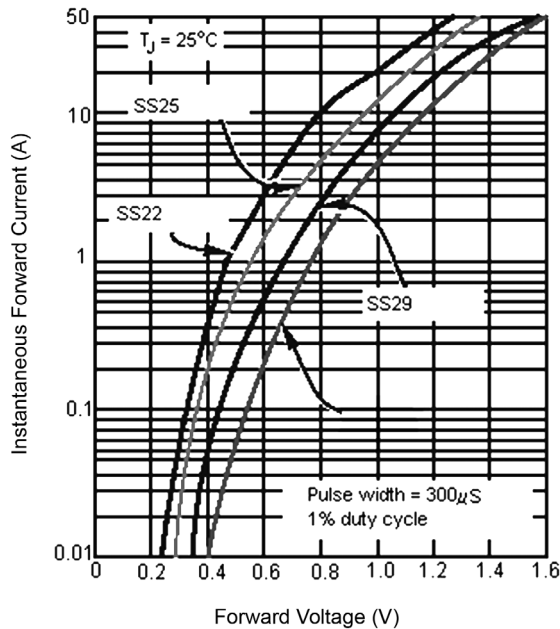
Ratings and Characteristic Curves



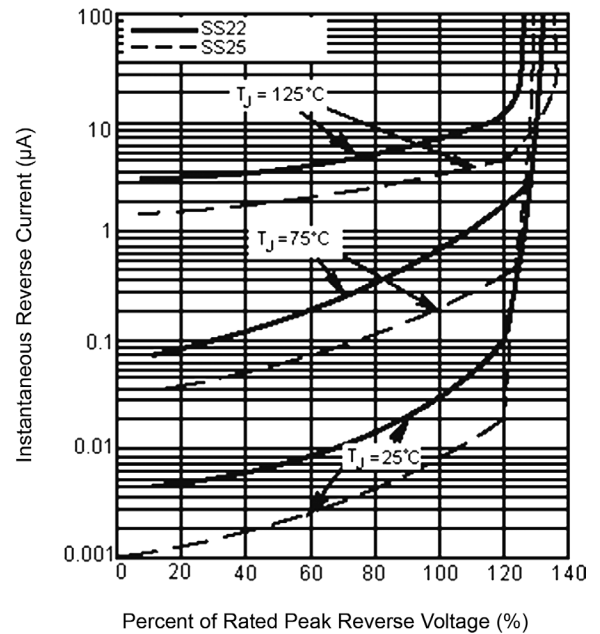
Schottky Diode



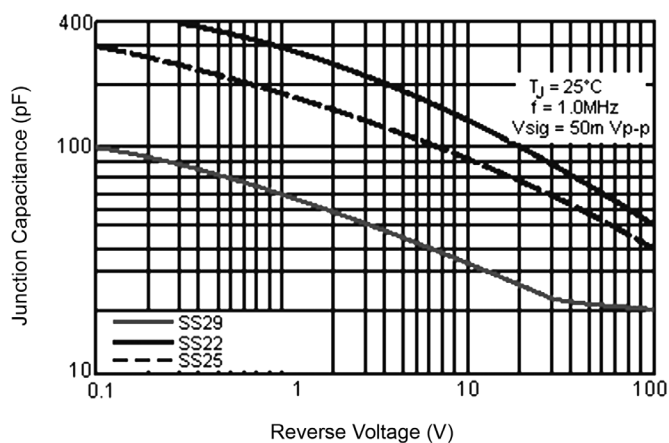
Typical Forward Characteristics



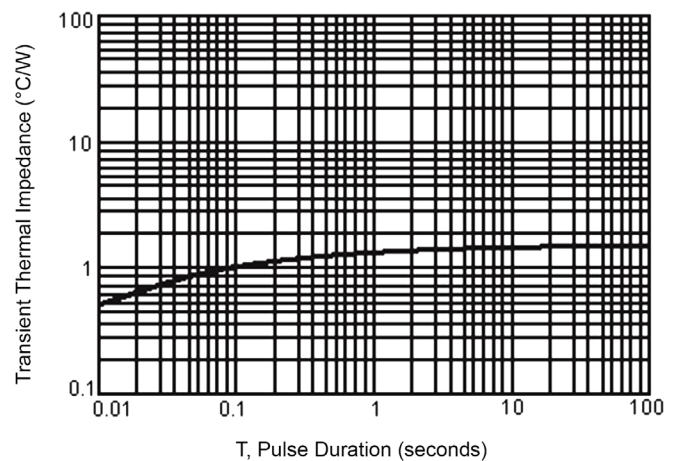
Typical Reverse Characteristics



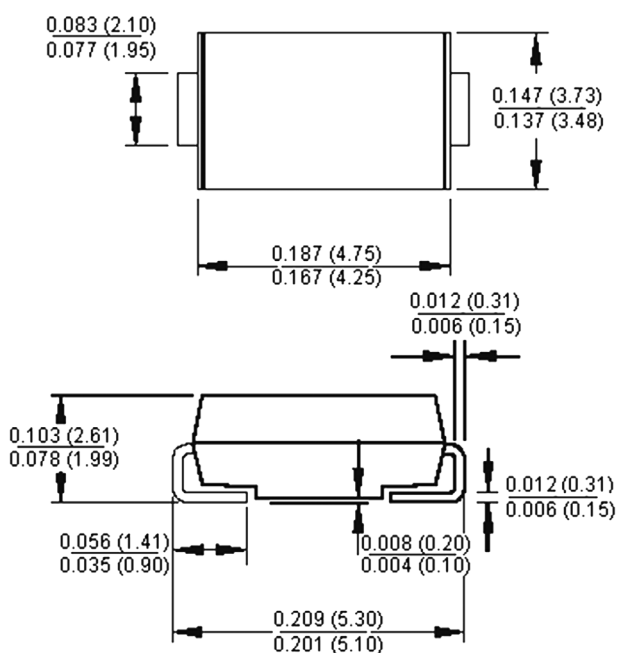
Typical Junction Capacitance



Typical Transient Thermal Characteristics



SMB/DO-214AA



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Diode, Schottky, 2A, 20V	SS22
Diode, Schottky, 2A, 30V	SS23
Diode, Schottky, 2A, 50V	SS25
Diode, Schottky, 2A, 90V	SS29

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