





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	
Maximum RMS Voltage	V _{RMS}	14	21	35	63	V
Maximum DC Blocking Voltage	V _{DC}	20	30	50	90	
Maximum Average Forward Rectified Current at T _L	I _(AV)	2				
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50				А







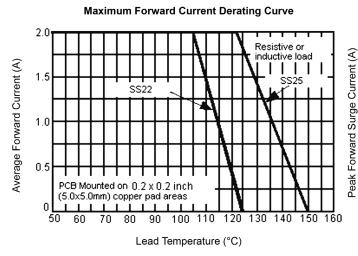
Parameters	Symbol	SS22	SS23	SS25	SS29	Units
Maximum Instantaneous Forward Voltage (Note 1) I _F = 2A at 25°C at 100°C	V _F	0.5 0.4		0.7 0.65	0.85 0.7	V
Maximum DC Reverse Current at T _A = 25°C	I _R	0.4		0.1	μΑ μΑ	
at Rated DC Blocking Voltage at T _A = 125°C		10 5		5		
Typical Junction Capacitance (Note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

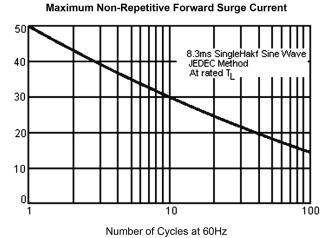
Notes:

Pulse Test with PW = 300μ seconds, 1% Duty Cycle.

- 2. Measured on PC Board with 0.4" × 0.4" (10mm × 10mm) Copper Pad Areas.
- 3. Measured at 1MHz and Applied Reverse Voltage of 4V DC.

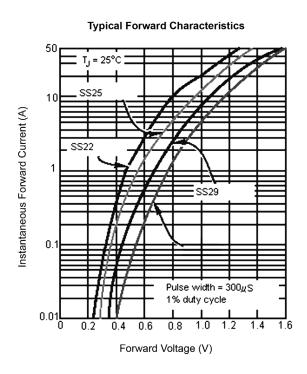
Ratings and Characteristic Curves

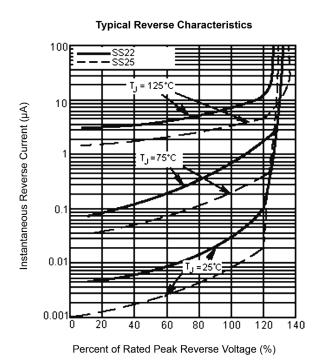


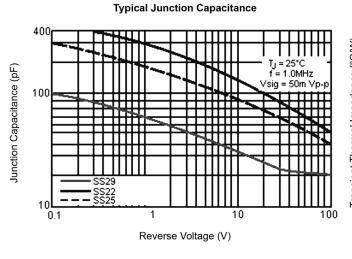


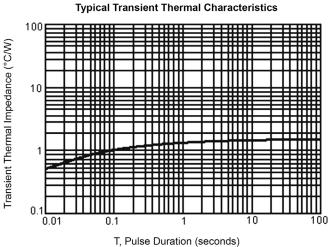






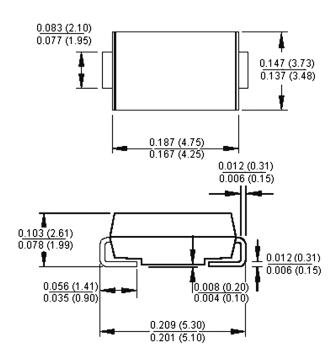








SMB/DO-214AA



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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