

Schottky Diode



Features:

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

Mechanical Data:

Case	: Moulded plastic
Terminals	: Solder plated
Polarity	: Indicated by cathode band
Packaging	: 12mm tape per EIA STD RS-481
Weight	: 0.093 gram

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%

Description	Symbol	SS24	SS26	SS210	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	60	100	V
Maximum RMS Voltage	V_{RMS}	28	42	70	
Maximum DC Blocking Voltage	V_{DC}	40	60	100	
Maximum Average Forward Rectified Current at T_L	$I_{(AV)}$	2			A
Peak Forward Surge Current, 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50			
Maximum Instantaneous Forward Voltage (Note 1) at 2A	V_F	0.5	0.7	0.85	V
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 100^\circ\text{C}$	I_R	0.4		0.1	mA
		20	10	20	
Typical Junction Capacitance (Note 3)	C_j	130			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	17			°C/W
	$R_{\theta JA}$	15			
Operating Temperature Range	T_J	-65 to +125	-65 to +150		°C
Storage Temperature Range	T_{STG}	-65 to +150			

Notes:

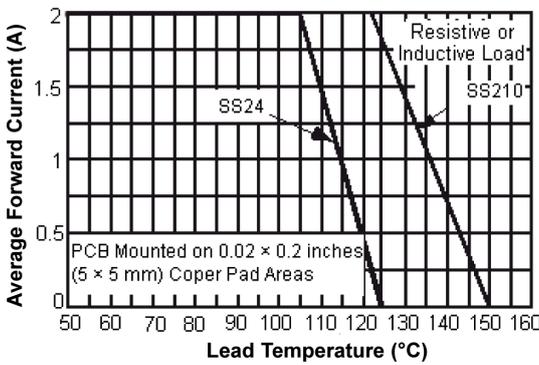
1. Pulse Test with PW = 300µ seconds, 1% Duty Cycle
2. Measured on P.C. Board with 0.4 × 0.4 inches (10 × 10 mm) Copper Pad Areas
3. Measured at 1MHz and Applied Reverse Voltage of 4V DC

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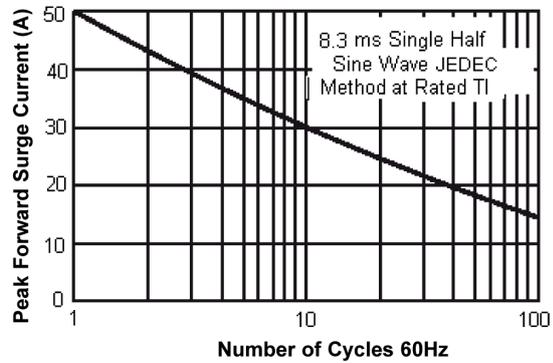


Ratings and Characteristic Curves:

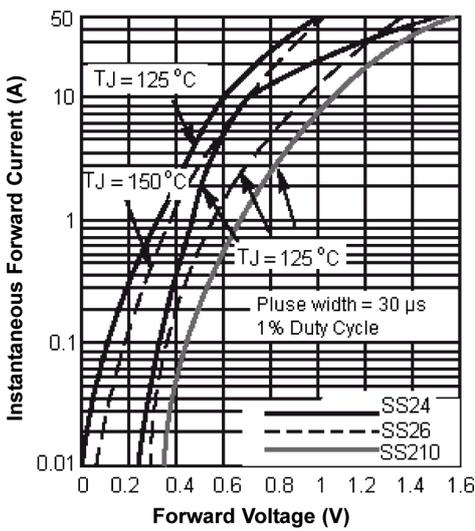
Maximum Forward Current Derating Curve



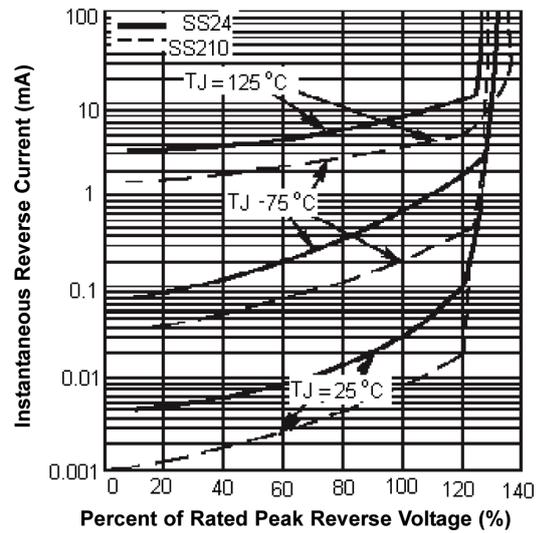
Maximum Non-Repetitive Forward Surge Current



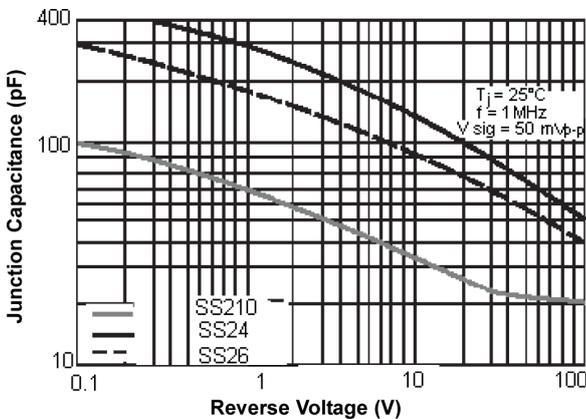
Typical Forward Characteristics



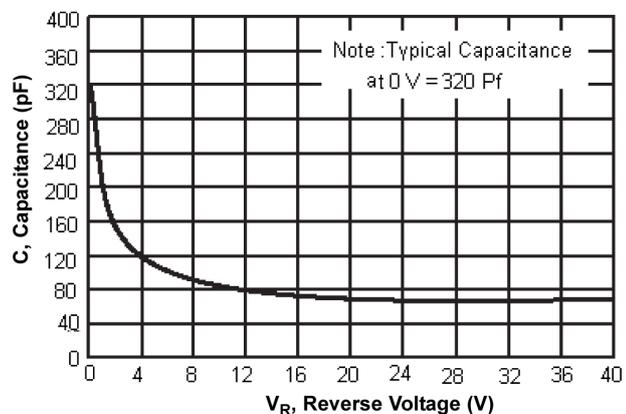
Typical Reverse Characteristics



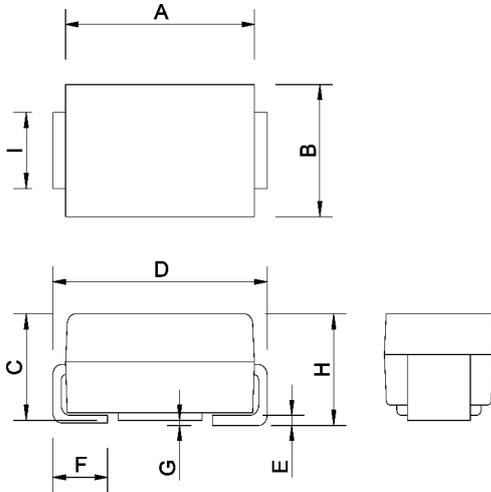
Typical Junction Capacitance



Typical Capacitance



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Dim	Min	Max
A	4.3	4.7
B	3.3	3.7
C	2	2.3
D	5.05	5.55
E	0.1	0.3
F	0.95	1.55
G	0.2 Max	
H	2.1	2.5
I	1.85	2.15

Dimensions : Millimetres

Part Number Table

Description	Part Number
Schottky Diode, 2A, 100V, SMB	SS210

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