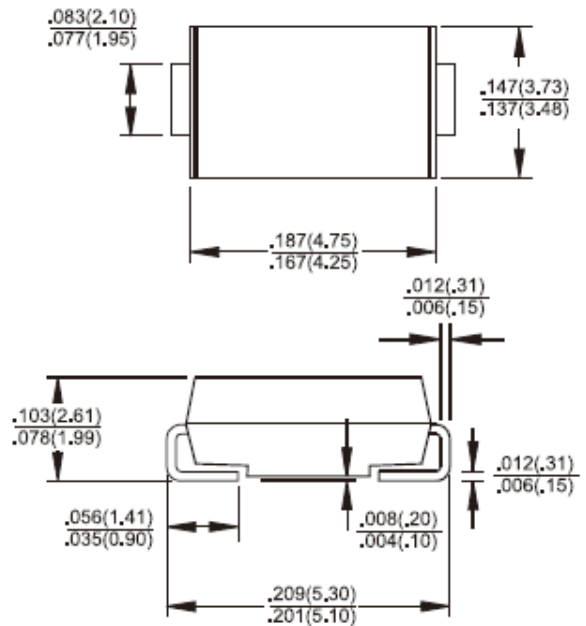




### Features

- ✧ For surface mounted application
- ✧ Easy pick and place
- ✧ Metal to silicon rectifier, majority carrier conduction
- ✧ Low power loss, high efficiency
- ✧ High current capability, low VF
- ✧ High surge current capability
- ✧ Plastic material used carriers Underwriters Laboratory Classification 94V-0
- ✧ Epitaxial construction
- ✧ High temperature soldering: 260°C/10 seconds at terminals
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode.

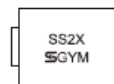


### Mechanical Data

- ✧ Case: Molded plastic
- ✧ Terminals: Pure tin plated, lead free.
- ✧ Polarity: Indicated by cathode band
- ✧ Packaging: 12mm tape per EIA STD RS-481
- ✧ Weight: 0.093 grams

### Dimensions in inches and (millimeters)

#### Marking Diagram



- SS2X = Specific Device Code
- G = Green Compound
- Y = Year
- M = Work Month

### 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%

Type Number	Symbol	SS 22	SS 23	SS 24	SS 25	SS 26	SS 29	SS 210	SS 215	Units		
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	90	100	150	V		
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	63	70	105	V		
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	90	100	150	V		
Maximum Average Forward Rectified Current at $T_L$ (See Fig. 1)	$I_{F(AV)}$	2								A		
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	50								A		
Maximum Instantaneous Forward Voltage (Note 1) IF= 2 A @ 25 °C @ 100 °C	$V_F$	0.5 0.4		0.70 0.65		0.85 0.70		0.95 0.80		V		
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A=25\text{ }^\circ\text{C}$	$I_R$	0.4					0.1				mA	
@ $T_A=100\text{ }^\circ\text{C}$		10		5		-				mA		
@ $T_A=125\text{ }^\circ\text{C}$		-					5.0				mA	
Typical Junction Capacitance (Note 2)	$C_j$	130								pF		
Typical Thermal Resistance	$R_{\theta JL}$ $R_{\theta JA}$						17 75					$^\circ\text{C/W}$
Operating Temperature Range	$T_J$	- 65 to + 125			- 65 to + 150					$^\circ\text{C}$		
Storage Temperature Range	$T_{STG}$	- 65 to + 150									$^\circ\text{C}$	

Note 1: Pulse Test with PW=300u sec, 1% Duty Cycle

Note 2: Measure at 1MHz and Applied Reverse Voltage of 4.0V D.C.

## RATINGS AND CHARACTERISTIC CURVES (SS22 THRU SS215)

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

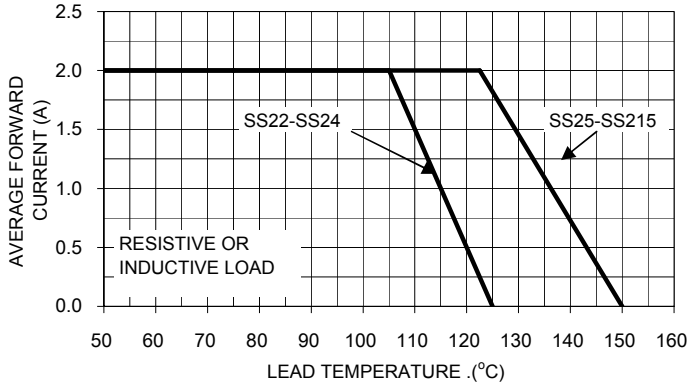


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

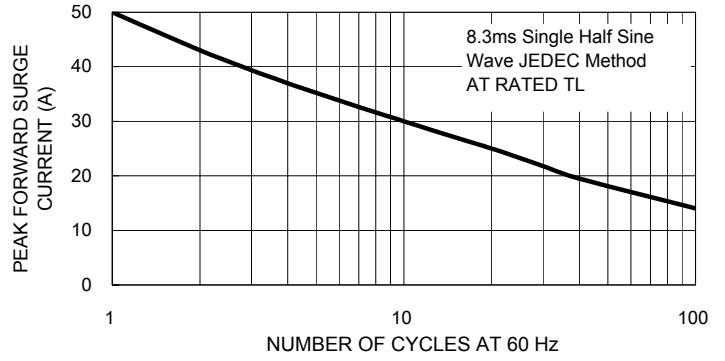


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

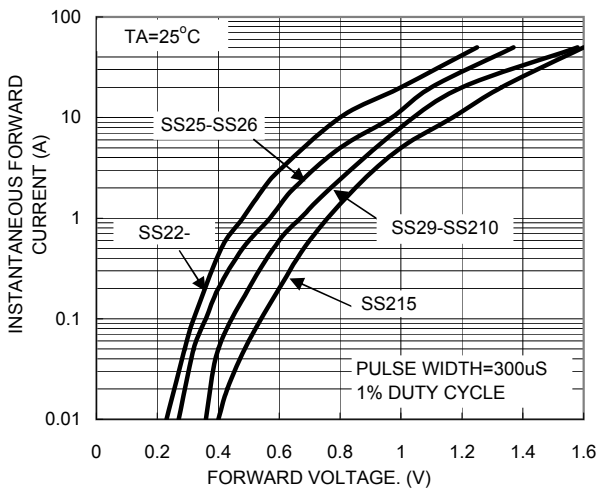


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

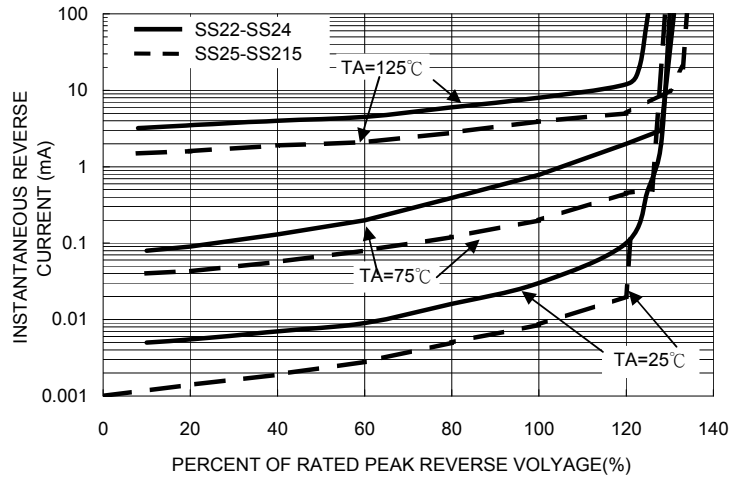


FIG. 5- TYPICAL JUNCTION CAPACITANCE

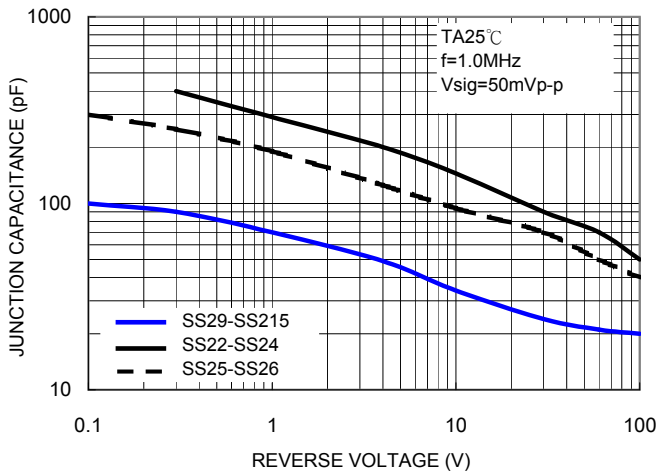


FIG. 6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS

