



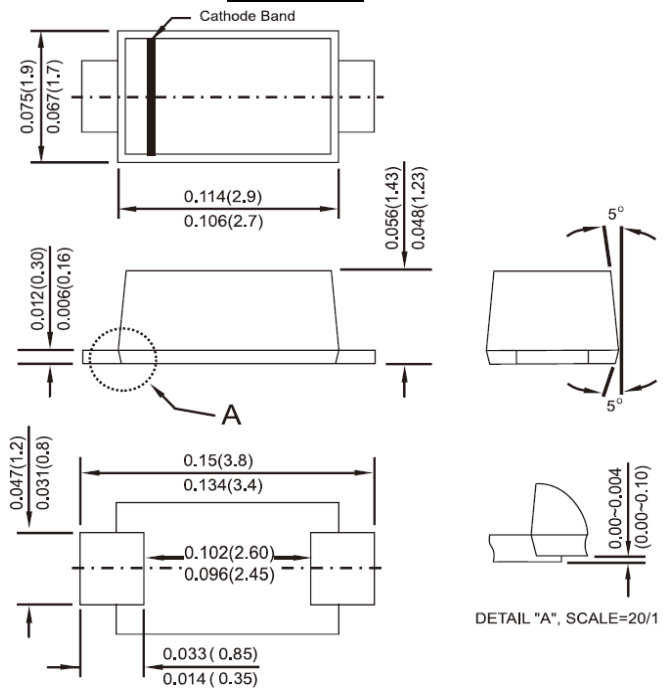
SS22L - SS215L 2.0AMPS Surface Mount Schottky Barrier Rectifiers Sub SMA

Features

- ✧ For surface mounted application
- ✧ Low-Profile Package
- ✧ Idea for automated pick & place
- ✧ High current capability, low VF
- ✧ High surge current capability
- ✧ Plastic material used carriers Underwriters Laboratory Classification 94V-0
- ✧ Epitaxial construction
- ✧ High temperature soldering guaranteed: 260°C/10s at terminals
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode

Mechanical Data

- ✧ Case: Sub SMA plastic case
- ✧ Terminal: Pure tin plated, lead free
- ✧ Polarity: Color band denotes cathode end
- ✧ Packaging: 12mm tape per EIA STD RS-481
- ✧ Weight: 0.0196 grams



Dimensions in inches and (millimeters)

Marking Diagram



- 2XL = 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 22L	SS 23L	SS 24L	SS 25L	SS 26L	SS 29L	SS 210L	SS 215L	Unit
Maximum Repetitive 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
Marking Code		22L YM	23L YM	24L YM	25L YM	26L YM	29L YM	20L YM	2AL YM	V
Maximum Average Forward Rectified Current at TL (See Fig. 1)	I _{F(AV)}	2.0								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) @ 2.0A	V _F	0.50			0.70		0.85		0.95	V
Maximum Reverse Current @ Rated VR T _A =25 °C T _A =100 °C T _A =125 °C	I _R	0.4					0.1			mA
		15			10		-			
		-			-		5			
Typical Junction Capecitance (Note 2)	C _j	130					50			pF
Typical Thermal Resistance (Note 3)	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								°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.

Note 3: Mount on Cu-Pad Size 5mm × 5mm on P.C.B.

RATINGS AND CHARACTERISTIC CURVES (SS22L THRU SS215L)

FIG.1 FORWARD CURRENT DERATING CURVE

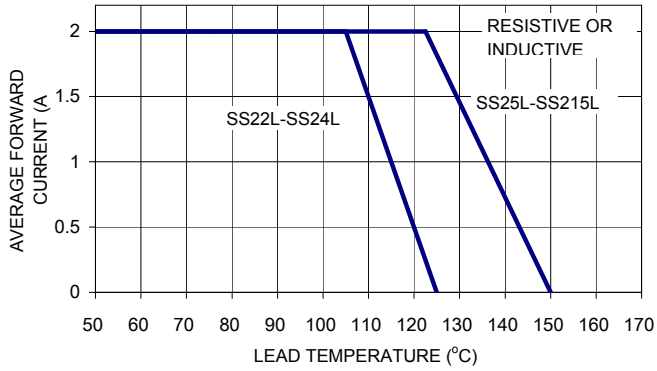


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

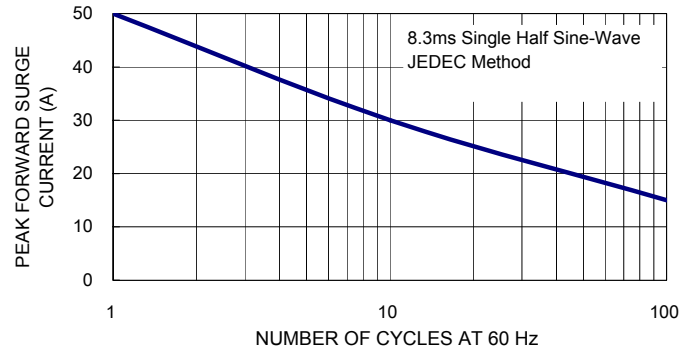


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

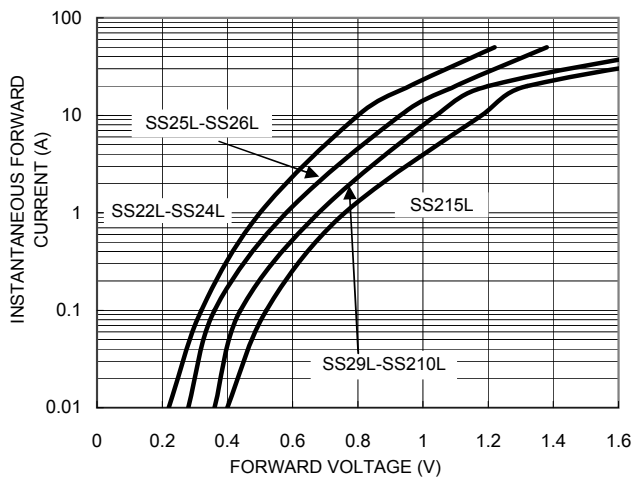


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

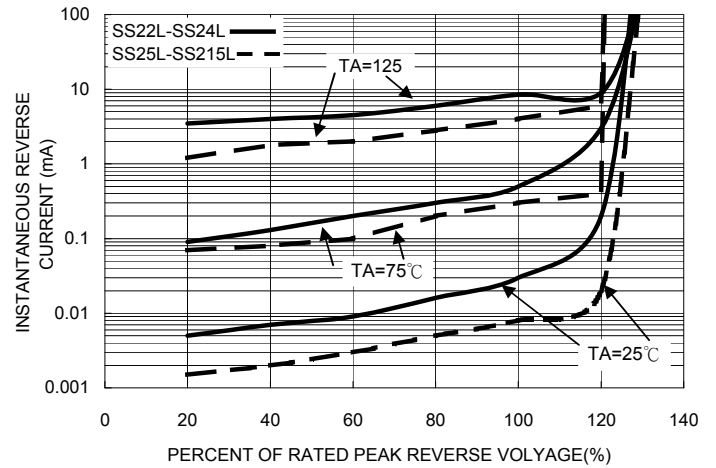


FIG. 5 TYPICAL JUNCTION CAPACITANCE

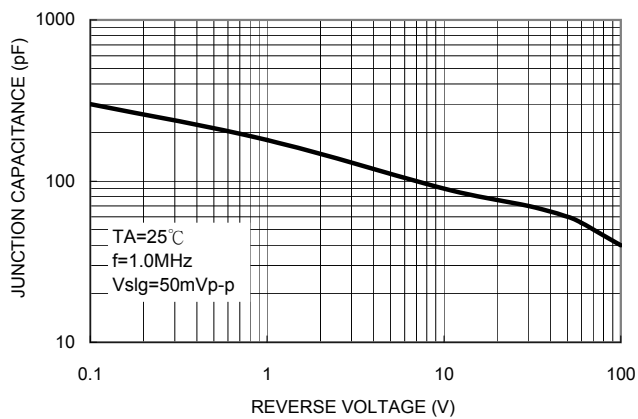
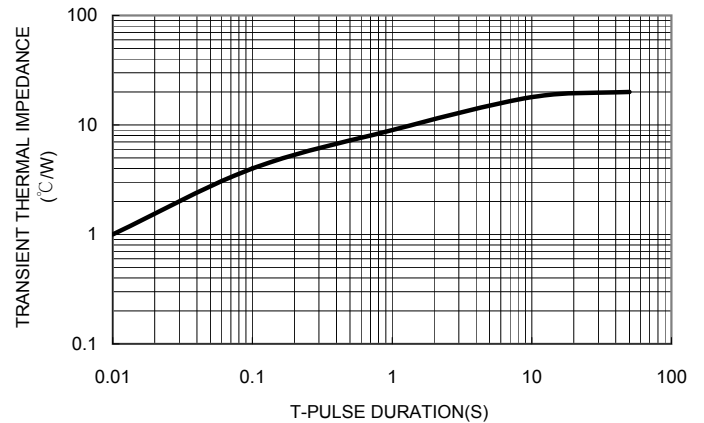


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE



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