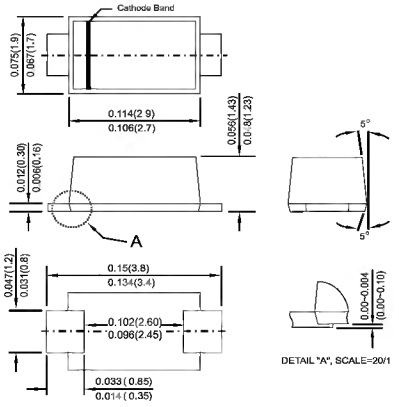
TAIWAN SEMICONDUCTOR

SS22L - SS215L

2.0 AMPS. Surface Mount Schottky Barrier Rectifiers

Sub SMA

RoHS COMPLIANCE



Dimensions in inches and (millimeters)

Features

- For surface mounted application
- Low-Profile Package
- Ideal for automated pick & place
- 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

- Cases: 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 approx. 15mg

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, de-rate current by 20%

Type Number	Symbol	SS 22L	SS 23L	SS 24L	SS 25L	SS 26L	SS 29L	SS 210L	SS 215L	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
Marking Code		22LY M	23LY M	24LY M	25LY M	26LY M	29LY M	20LY M	2ALYM	
Maximum Average Forward Rectified Current at T_L(See Fig. 1)	$I_{(AV)}$	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	0.5			0.70		0.85		0.95	V
Maximum DC Reverse Current @ T_A =25°C	I_R	0.4					0.1			mA
at Rated DC Blocking Voltage @ T_A=125°C		15			10		5			mA
Typical Junction Capacitance (Note 3)	Cj	130					50			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$ $R_{\theta JA}$	17 75								°C/W
Operating Temperature Range	T_J	-65 to +125			-65 to +150					°C
Storage Temperature Range	T_{STG}	-65 to +150								°C

Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle
2. Measured on P.C.Board with 0.27" x 0.27"(7.0mm x 7.0mm) Copper Pad Areas.
3. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

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