





#### **Features**

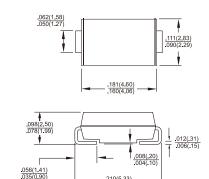
- ♦ UL Recognized File # E-326243
- → For surface mounted application
- ♦ Metal silicon junction, majority carrier conduction
- ♦ Low forward voltage drop
- ♦ Easy pick and place
- ♦ High surge current capability
- Plastic material used carries Underwriters Laboratory Classification 94V-0
- ♦ Epitaxial construction
- → High temperature soldering:
   260°C / 10 seconds at terminals
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

### **Mechanical Data**

- ♦ Terminals: Matte tin plating
- ♦ Polarity: Indicated by cathode band
  ♠ Poskaging: 12mm tape per EIA STD
- ♦ Packaging: 12mm tape per EIA STD
- RS-481
- ♦ Weight: 0.064 grams

## **SSL12 - SSL14**

1.0 AMP. Surface Mount Low VF Schottky Barrier Rectifiers SMA/DO-214AC



Dimensions in inches and (millimeters)

Marking Diagram



SL1X = 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	SSL12	SSL13	SSL14	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	V
Maximum RMS Voltage	VRMS	14	21	28	V
Maximum DC Blocking Voltage	VDC	20	30	40	V
Maximum Average Forward Rectified Current See Fig. 1	<b>I</b> F(AV)	1.0			А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	lfsm	50			А
Maximum Instantaneous Forward Voltage (Note 1) @ 1.0A	VF	0.39			V
Maximum DC Reverse Current @ T <sub>A</sub> =25°C at Rated DC Blocking Voltage @ T <sub>A</sub> =100°C (Note 1)	lR	0.2			mA
		50			mA
Maximum Thermal Resistance (Note 2)	Røjl Røja	28 88			°C /W
Marking Code		SL12	SL13	SL14	
Operating Temperature Range	TJ	-55 to +125			°C
Storage Temperature Range	Тѕтс	-55 to + 150			°C

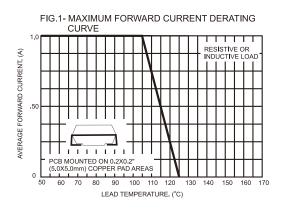
Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle.

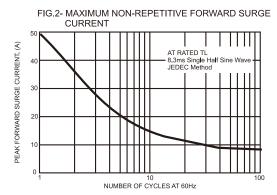
2. Measured on P.C. Board with 0.2 x 0.2" (5.0 x 5.0mm) Copper Pad Areas.

Version: C10

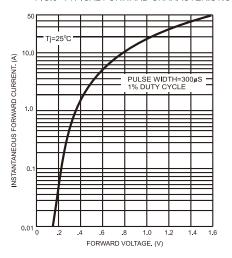


#### RATINGS AND CHARACTERISTIC CURVES (SSL12 THRU SSL14)











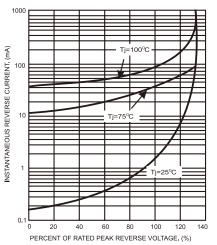
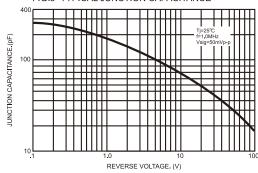


FIG.5- TYPICAL JUNCTION CAPACITANCE



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Taiwan Semiconductor: SSL12 SSL13 SSL14