



Features

- ✧ For surface mounted application
- ✧ Metal silicon junction, majority carrier conduction
- ✧ Low forward voltage drop
- ✧ Easy pick & place
- ✧ High surge current capability
- ✧ Plastic material used carriers Underwriters Laboratory Classigation 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: Molded plastic
- ✧ Terminal: Matte tin plating
- ✧ Polarity: Indicated by cathode band
- ✧ Packaging: 12mm tape per EIA STD RS-481
- ✧ Weight: 0.093 grams

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

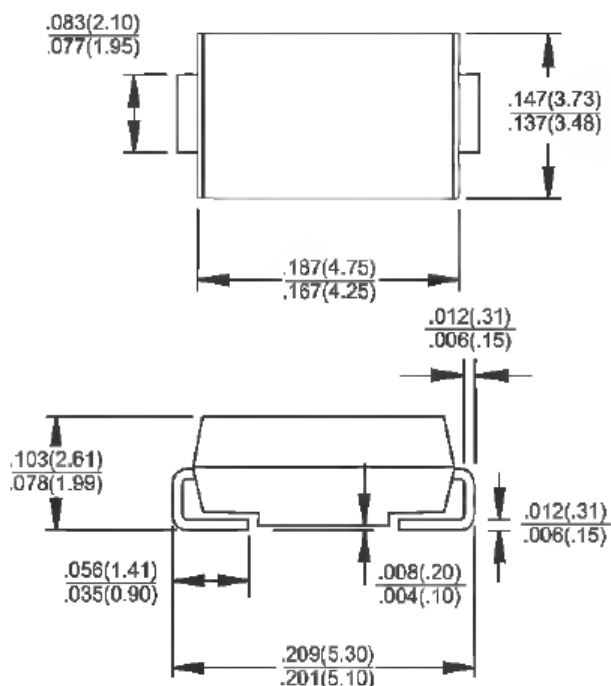
For capacitive load, derate current by 20%

Type Number	Symbol	SSL22	SSL23	SSL24	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80			A
Maximum Instantaneous Forward Voltage (Note 1) @ 2 A	V _F	0.41			V
Maximum DC Reverse Current T _A =25 °C at Rated DC Blocking Voltage T _A =100 °C	I _R	0.4			mA
		50		60	
Typical Thermal Resistance (Note 2)	R _{θJL}	25			°C/W
	R _{θJA}	70			
Marking Code		SL22	SL23	SL24	
Operating Temperature Range	T _J	- 55 to + 125			°C
Storage Temperature Range	T _{STG}	- 55 to + 150			°C

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

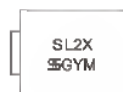
Note 2: Mount on Cu-Pad Size 10mm × 10mm on P.C.B.

SSL22 - SSL24 2.0AMPS. Surface Mount Low V_F Schottky Barrier Rectifiers **SMB/D0-214AA**



Dimensions in inches and (millimeters)

Marking Diagram



- SL2X = Specific Device Code
 G = Green Compound
 Y = Year
 M = Work Month

RATINGS AND CHARACTERISTIC CURVES (SSL22 THRU SSL24)

FIG.1 FORWARD CURRENT DERATING CURVE

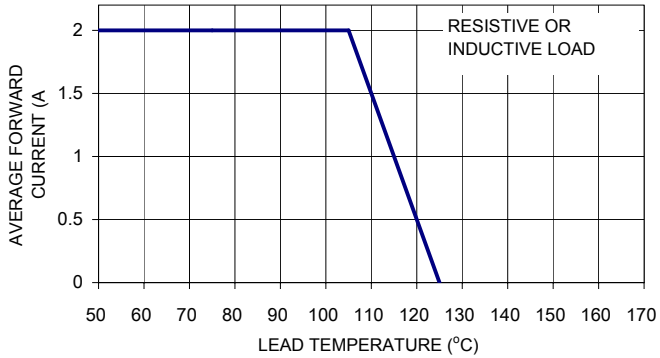


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

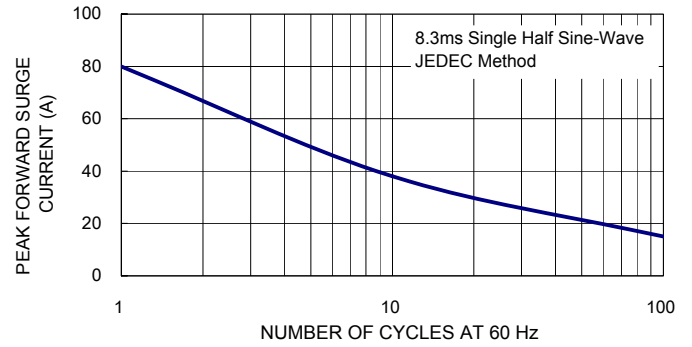


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

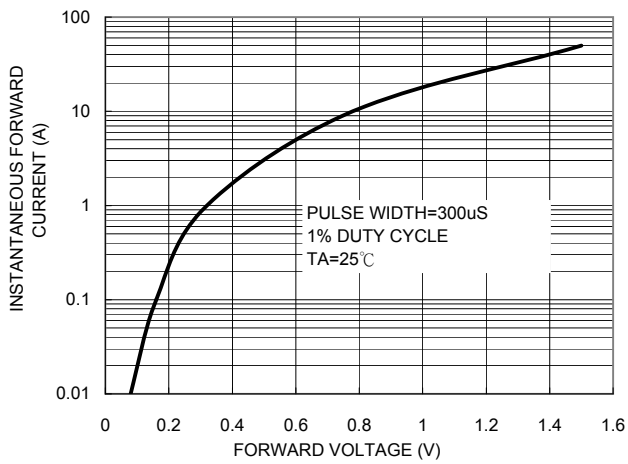


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

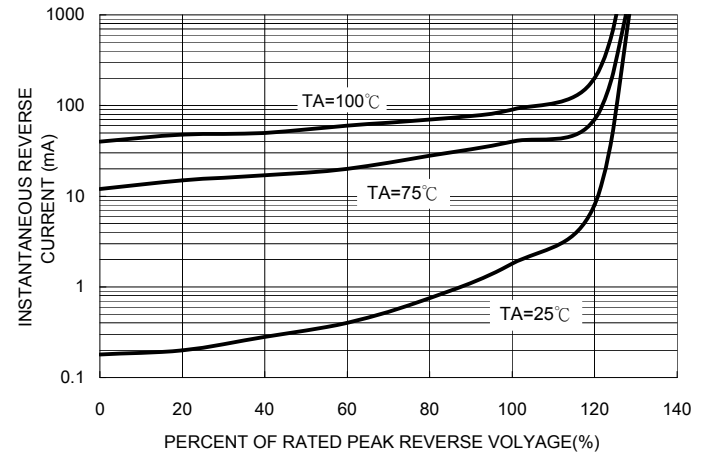


FIG. 5 TYPICAL JUNCTION CAPACITANCE

