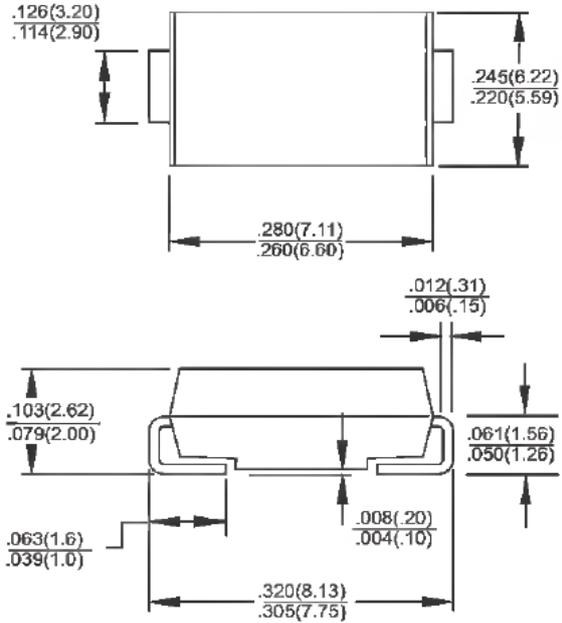


SMC/DO-214AB

Features

- ◇ For surface mounted application
- ◇ Metal to silicon rectifier, majority carrier conduction
- ◇ Low forward voltage drop
- ◇ Easy pick and place
- ◇ 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: Matte tin plating
- ◇ Polarity: Indicated by cathode band
- ◇ Packaging: 16mm tape per EIA STD RS-481
- ◇ Weight: 0.21 grams

Dimensions in inches and (millimeters)
Marking Diagram


- SL3X = 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	SSL32	SSL33	SSL34	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	$I_{F(AV)}$	3			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	I_{FSM}	100			A
Maximum Instantaneous Forward Voltage (Note 1) @ 3 A	V_F	0.41			V
Maximum Reverse Current @ Rated VR $T_A=25\text{ }^\circ\text{C}$ $T_A=100\text{ }^\circ\text{C}$	I_R	0.2		0.5	mA
		50		100	
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	17			$^\circ\text{C/W}$
	$R_{\theta JA}$	55			
Marking Code		SL32	SL33	SL34	
Operating Temperature Range	T_J	- 55 to + 125			$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 55 to + 150			$^\circ\text{C}$

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

Note 2: Measure on P.C.B. Board with 16mm x 16mm Copper Pad Areas

RATINGS AND CHARACTERISTIC CURVES (SSL32 THRU SSL34)

FIG.1 FORWARD CURRENT DERATING CURVE

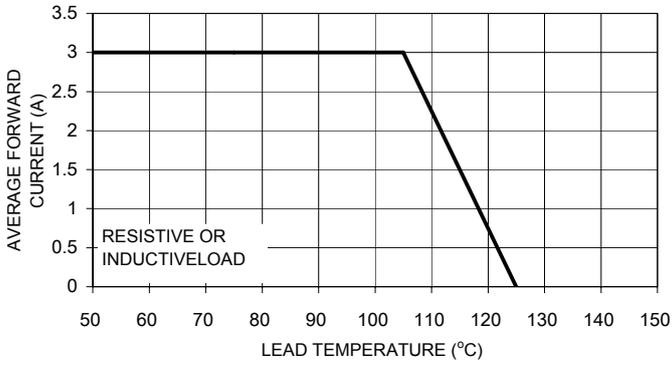


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

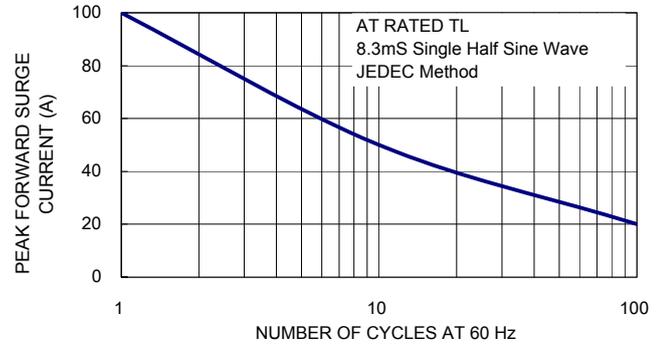


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

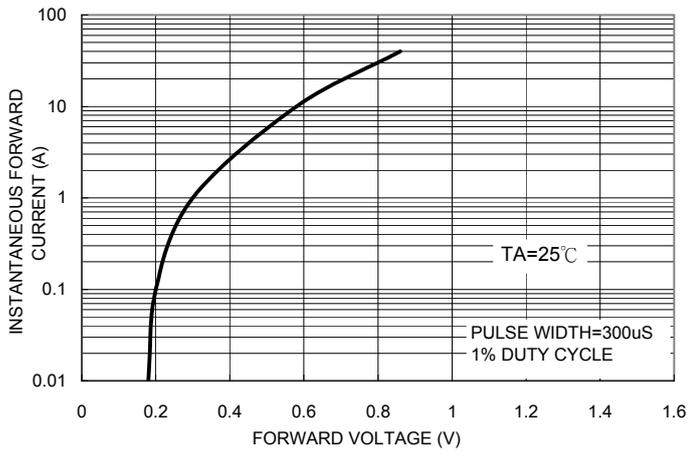


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

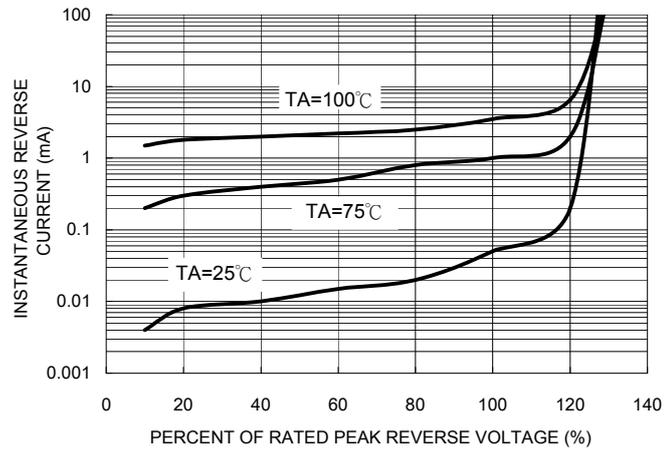


FIG. 5 TYPICAL JUNCTION CAPACITANCE

