



SSL32 - SSL34

3.0AMPS Surface Mount Schottky Barrier Rectifiers

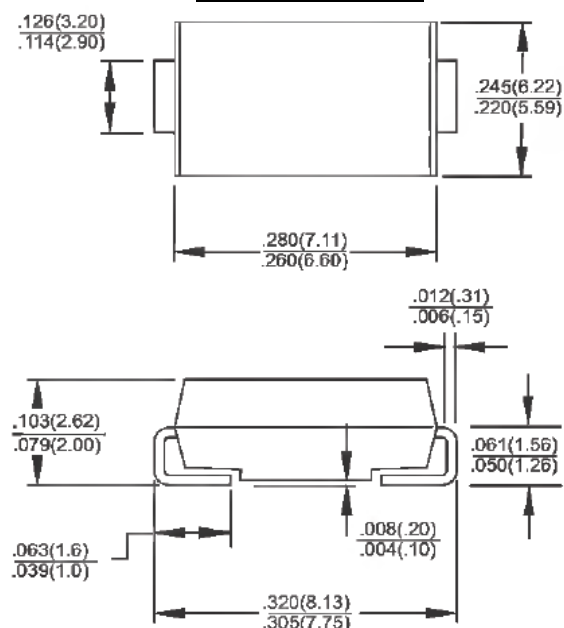
SMC/DO-214AB

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 °C T _A =100 °C	I _R	0.2		0.5	mA
		50		100	
Typical Thermal Resistance (Note 2)	R _{θJL}	17			°C/W
	R _{θJA}	55			
Marking Code		SL32	SL33	SL34	
Operating Temperature Range	T _J	- 55 to + 125			°C
Storage Temperature Range	T _{STG}	- 55 to + 150			°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

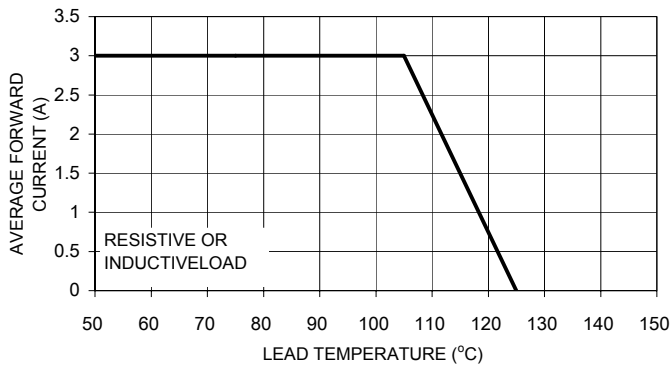


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

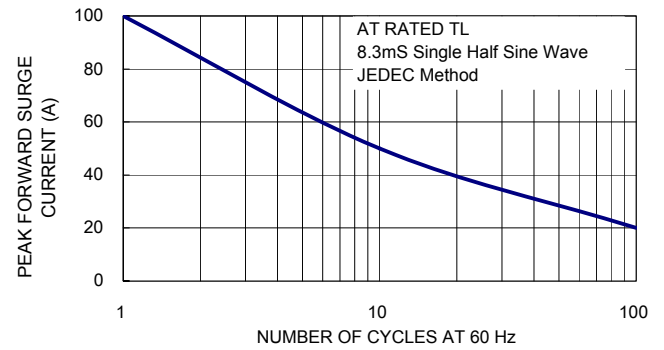


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

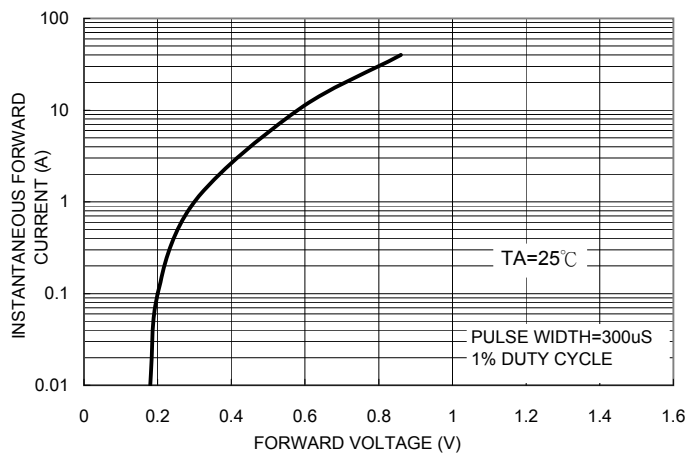


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

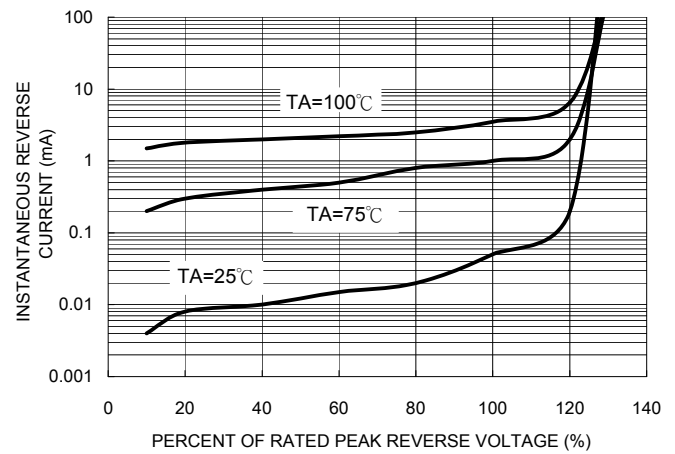


FIG. 5 TYPICAL JUNCTION CAPACITANCE

