



SSL32 - SSL34

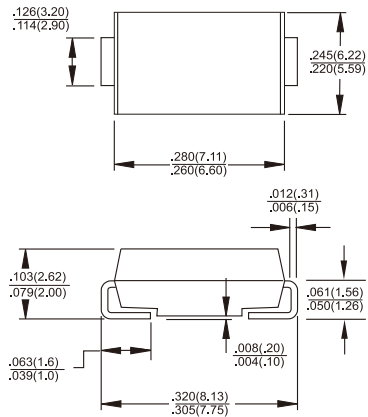
3.0 AMPS. Surface Mount

Low V_F Schottky Barrier Rectifiers

SMC/DO-214AB

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

- ✧ Cases: Molded plastic
- ✧ Terminals: Matte tin plating
- ✧ Polarity: Indicated by cathode band
- ✧ Packaging: 16mm tape per EIA STD RS-481
- ✧ Weight: 0.21grams

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	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	$I_{F(AV)}$	3.0			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	100			A
Maximum Instantaneous Forward Voltage @3.0A	V_F	0.41			V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$ (Note 1)	IR	0.2		0.5	mA
		50		100	mA
Maximum Thermal Resistance (Note 2)	R θ JL	17			$^\circ\text{C/W}$
	R θ JA	55			
Marking Code		SL32	SL33	SL34	
Operating Temperature Range	T_J	-55 to +125			$^\circ\text{C}$
Storage Temperature Range	TSTG	-55 to +150			$^\circ\text{C}$

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

2. Measured on P.C. Board with 0.6 x 0.6"(16.0 x 16.0mm) Copper Pad Areas.

RATINGS AND CHARACTERISTIC CURVES (SSL32 THRU SSL34)

