



Features

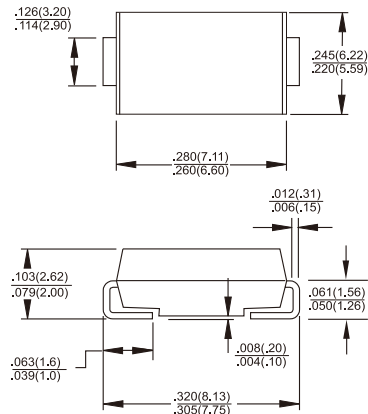
- ✧ UL Recognized File # E-326243
- ✧ For surface mounted application
- ✧ Metal silicon junction, majority carrier conduction
- ✧ Low forward voltage drop
- ✧ Easy pick and place
- ✧ High surge current capability
- ✧ Plastic material used carries Underwriters Laboratory Classification 94V-0
- ✧ Epitaxial 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

SSL32 - SSL34

3.0 AMPS. Surface Mount
Low V_F Schottky Barrier Rectifiers
SMC/DO-214AB



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) | I_R | 0.2 | | 0.5 | mA |
| | | 50 | | 100 | mA |
| Maximum Thermal Resistance (Note 2) | $R_{\theta JL}$ $R_{\theta JA}$ | 17 55 | | | $^\circ\text{C/W}$ |
| Marking Code | | SL32 | SL33 | SL34 | |
| Operating Temperature Range | T_J | -55 to +125 | | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | $^\circ\text{C}$ |

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)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

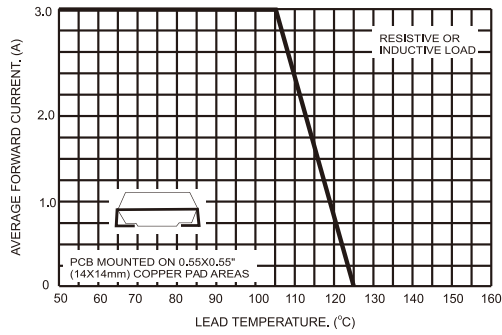


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

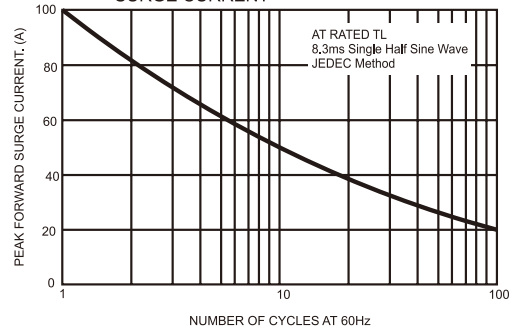


FIG.3- TYPICAL FORWARD CHARACTERISTICS

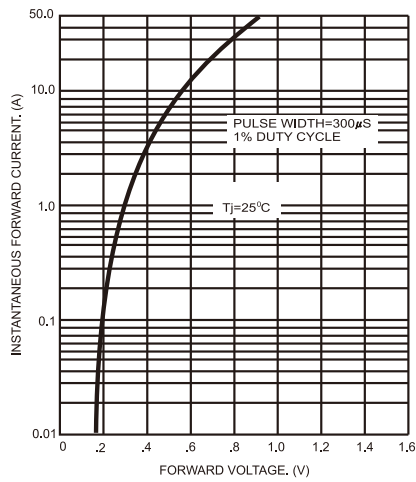


FIG.4- TYPICAL REVERSE CHARACTERISTICS

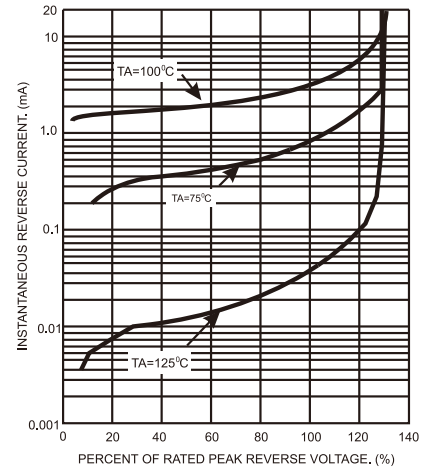
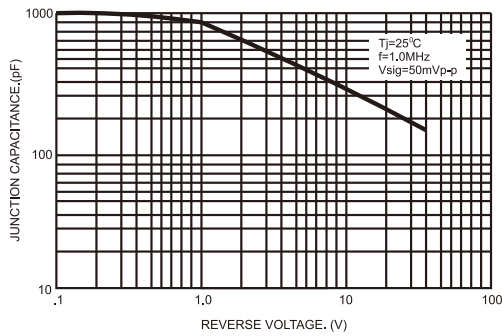


FIG.5- TYPICAL JUNCTION CAPACITANCE



Mouser Electronics

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