SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

# SSL32 THRU SSL34

**VOLTAGE RANGE** **20 to 40 Volts**

**CURRENT** **3.0 Ampere**

## FEATURES

- Low profile surface mount package
- Built-in strain relief
- High switching speed, low $V_F$
- Low voltage drop, high efficiency
- For use in low voltage high frequency inverters, Free willing ,and polarity protection applications
- Guardring for over voltage protection

## MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy :UL 94V-0 rate flame retardant
- Lead: Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.007 ounce, 0.25 gram-DO-214AB(SMC)

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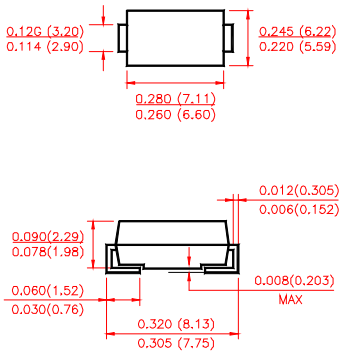


Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ ambient temperature unless otherwise specified.
- Single phase, half wave, 60Hz, resistive or inductive load.
- For capacitive load derate current by 20%.

| | | SYMBOLS | SSL32 | SSL33 | SSL34 | UNIT |
|---|---|---|---|---|---|---|
| Maximum Repetitive Peak Reverse Voltage | | $V_{RRM}$ | 20 | 30 | 40 | Volts |
| Maximum RMS Voltage | | $V_{RMS}$ | 20 | 30 | 40 | Volts |
| Maximum DC Blocking Voltage | | $V_{DC}$ | 20 | 30 | 40 | Volts |
| Maximum Average Forward Rectified Current at $T_L$ see figure1 $T_L$=95℃ | | $I_{(AV)}$ | 3.0 | | | Amps |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | | $I_{FSM}$ | 80 | | | Amps |
| Maximum Instantaneous Forward Voltage @ 3.0A （Note1） | | $V_F$ | 0.38 | | 0.45 | Volts |
| Maximum DC Reverse Current at rated DC Blocking Voltage per element | $T_A$ = 25℃ | $I_R$ | 0.5 | | | mA |
| | $T_A$ = 100℃ | | 10.0 | | | |
| Typical Thermal Resistance (Note 2) | | $R_{\theta JA}$ | 55 | | | ℃/W |
| | | $R_{\theta JL}$ | 12 | | | |
| Operating Junction Temperature | | $T_J$ | (-55 to +150) | | | ℃ |
| Storage Temperature Range | | $T_{STG}$ | (-55 to +150) | | | ℃ |

**Notes:**

1. Pulse test: 300μs pulse width,1% duty cycle
2. PCB mounted with 0.55"×0.55"(14.0cm×14.0cm) copper pads

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|---|---|
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| **CURRENT** | **3.0 Ampere** |

## RATING AND CHRACTERISTIC CURVES SSL32 THRU SSL34

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

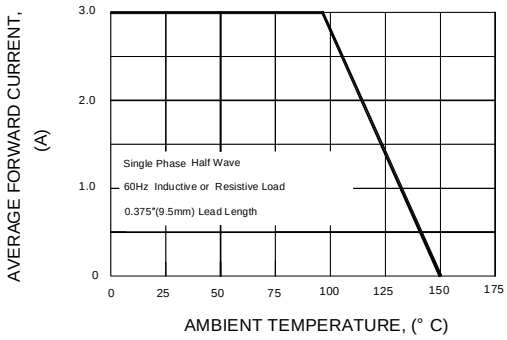



FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

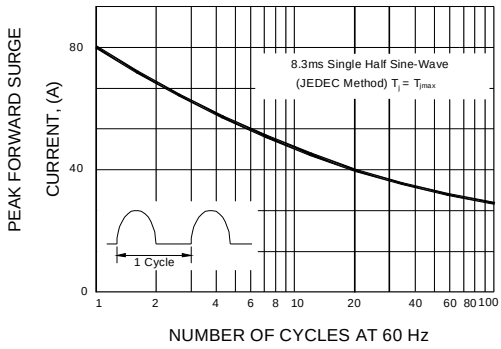



FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

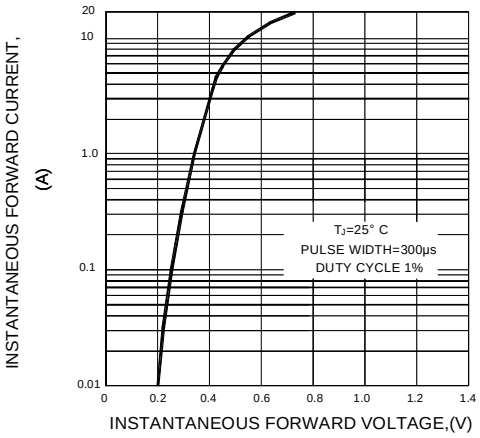



FIG.4-TYPICAL REVERSE CHARACTERISTICS

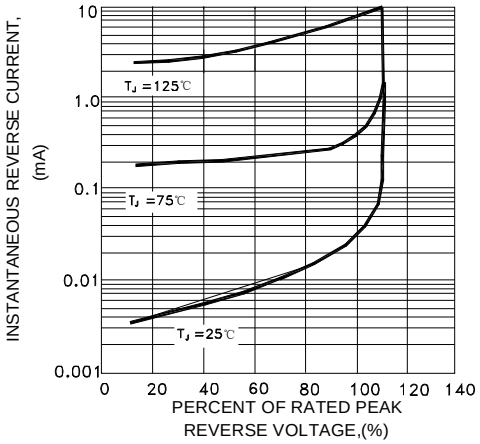
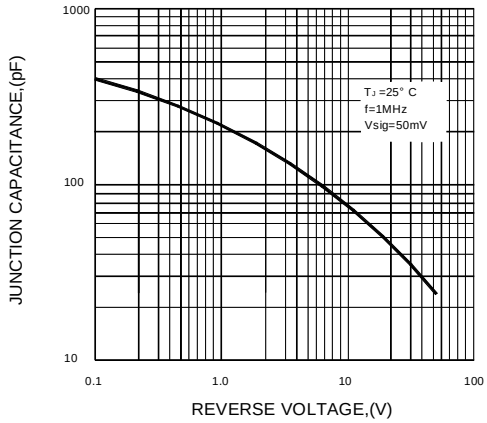



FIG.5-TYPICAL JUNCTION CAPACITANCE

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