



SL32 THRU SL34

LOW VF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
 VOLTAGE - 20 to 40 Volts CURRENT - 3.0 Amperes

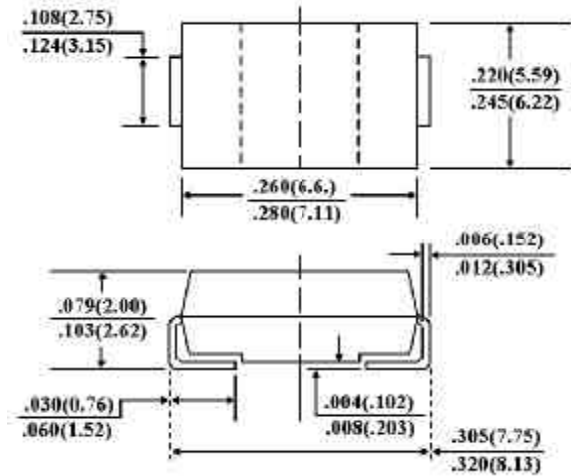
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Butt-in strain relief
- Metal to silicon rectifier
- majority carrier conduction
- Low power loss, High efficiency
- High current capability, low V_F
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals

MECHANICAL DATA

- Case: JEDEC DO-214AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- Standard packaging: 16mm tape (EIA-481)
- Weight: 0.007 ounce, 0.21 gram

SMC/DO-214AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Resistive or inductive load.

| | SYMBOLS | SL32 | SL33 | SL34 | UNITS |
|---|--------------------------------------|-------------|------|------|-------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 20 | 30 | 40 | Volts |
| Maximum RMS Voltage | V_{RMS} | 14 | 21 | 28 | Volts |
| Maximum DC Blocking Voltage | V_{DC} | 20 | 30 | 40 | Volts |
| Maximum Average Forward Rectified Current at T_L (See Figure 1) | $I_{(AV)}$ | 3.0 | | | Amps |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDEC method) | I_{FSM} | 100.0 | | | Amps |
| Maximum Instantaneous Forward Voltage at 3.0A (Note 1) | V_F | 0.38 | 0.38 | 0.40 | Volts |
| Maximum DC Reverse Current $T_A=25$ °C(Note 1) | I_R | 0.5 | | | mA |
| At Rated DC Blocking Voltage $T_A=100$ °C | | 20.0 | | | |
| Maximum Thermal Resistance (Note 2) | $R_{\theta KJL}$ $R_{\theta KJA}$ | 17 55 | | | °C/W |
| Operating Junction Temperature Range | T_J | -50 to +125 | | | °C |
| Storage Temperature Range | T_{STG} | -50 to +150 | | | °C |

NOTES:

1. Pulse Test with PW=300 µs, 1% Duty Cycle.
2. Mounted on P.C.Board with 14mm² (.013mm thick) copper pad areas.