# WEITRON

**SL32A Thru SL34A**

## Low VF Surface Mount
## Schottky Barrier Rectifiers

**Lead(Pb)-Free**

**REVERSE VOLTAGE**
**20-40 Volts**
**FORWARD CURRENT**
**3.0 AMPERES**

**SMA-1**

**Features:**

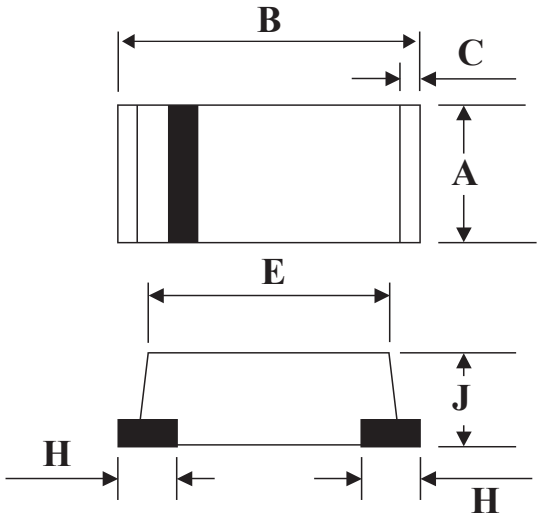
* Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding Compound.
* For surface mounted applications.
* Exceeds environmental standards of MIL-S-19500 / 228.
* Low leakage current.

**Mechanical Data**

* Case : Molded Plastic, JEDECDO-214AC.
* Terminals : Solder plated, solderable per MIL-STD-750, Method 2026.
* Polarity : Indicated By Cathode Band.
* Mounting Position : Any
* Weight : 0.05 grams

## SMA-1 Outline Dimension

unit:mm




| SMA-1 | | |
|---|---|---|
| **Dim** | **Min** | **Max** |
| **A** | 2.40 | 2.80 |
| **B** | 4.40 | 4.80 |
| **C** | - | 0.30(Typ) |
| **E** | 3.80 | 4.20 |
| **H** | - | 1.00(Typ) |
| **J** | 1.50 | 1.70 |

## Maximum Ratings and Electrical Characteristics

| Characteristics | Symbol | SL32A | SL33A | SL34A | Unit |
|---|---|---|---|---|---|
| Continuous Reverse Voltage | $V_R$ | 20 | 30 | 40 | V |
| Maximum Forward Voltage | $V_F$ | 0.38 | 0.40 | 0.40 | V |
| Repetitive Peak Reverse Voltage | $V_{RRM}$ | 20 | 30 | 40 | V |
| RMS Voltage | $V_{RMS}$ | 14 | 21 | 28 | V |
| Forward Rectified Current<br>See Fig.2 | $I_O$ | 3.0 | | | A |
| Peak Forward Surge Current,<br>8.3 ms Single Half Sine-Wave<br>Superimposed on Rated Load (JEDEC Method) | $I_{FSM}$ | 80 | | | A |
| Maximum DC Reverse Current<br>VR = VRRM @$T_A$=25˚C<br>VR = VRRM @TA=100˚C | $I_R$ | 1.0<br>10 | | | mA |
| Typical Thermal Resistance | $R_{\theta JA}$ | 50(Typ) | | | ˚C/W |
| Typical Junction Capacitance<br>f=1MHz and applied 4VDC reverse voltage | $C_J$ | 300(Typ) | | | pF |
| Operating Temperature Range | $T_j$ | -55 to+125 | | | ˚C |
| Storage Temperature Range | $T_{STG}$ | -55 to+150 | | | ˚C |

## Device Marking

| Item | Marking |
|---|---|
| SL32A<br>SL33A<br>SL34A | SL32<br>SL33<br>SL34 |

## RATING AND CHARACTERISTIC CURVES

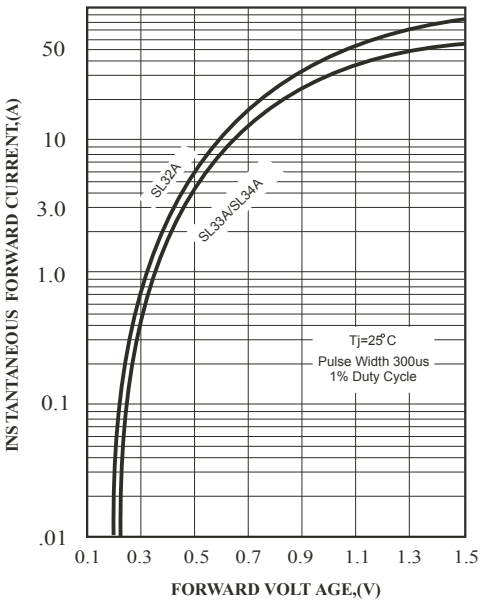



FIG.1-TYPICAL FORWARD CHARACTERISTICS

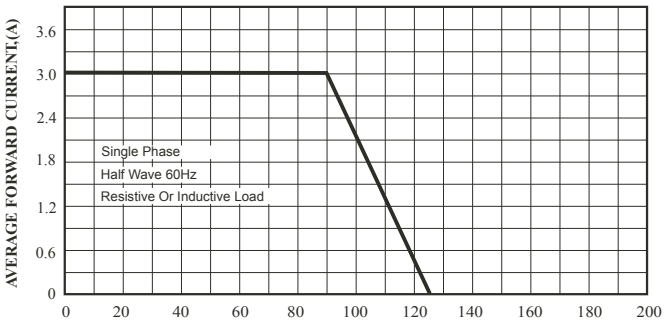



FIG.2-TYPICAL FORWARD CURRENT DERA TING CURVE

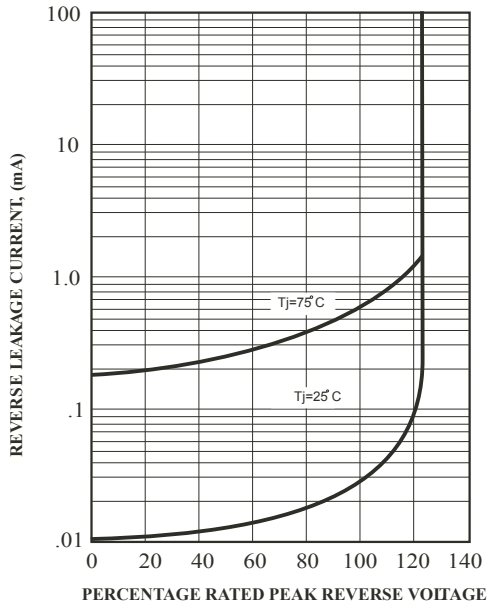



FIG.3 - TYPICAL REVERSE CHARACTERISTICS

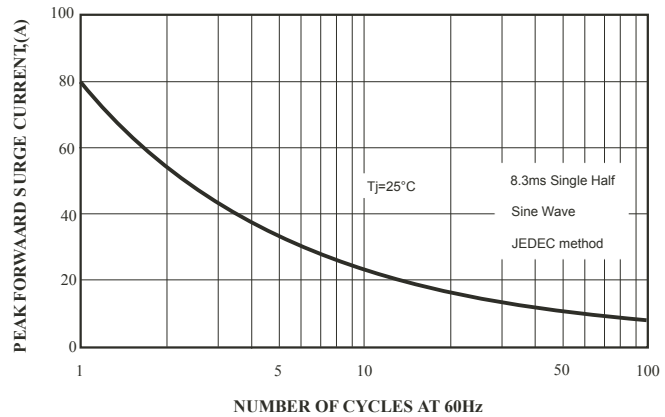



FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

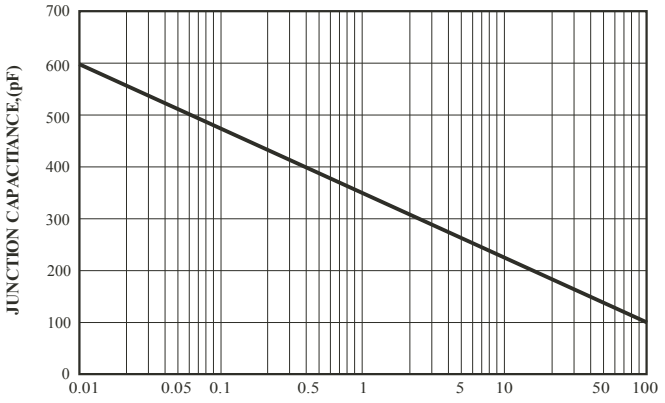



FIG.5-TYPICAL JUNCTION CAPACITANCE