

## Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- High Surge Forward Current Capability
- Extremely Low Thermal Resistance
- Halogen Free. "Green" Device (Note 2)

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 65°C/W Junction to Ambient
- Thermal Resistance: 18°C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|----------------------------------------|---------------------|-----------------------------|
| SL34A           | SL34A          | 40V                                    | 28V                 | 40V                         |
| SL36A           | SL36A          | 60V                                    | 42V                 | 60V                         |
| SL310A          | SL310A         | 100V                                   | 70V                 | 100V                        |

## Electrical Characteristics @ 25°C Unless Otherwise Specified

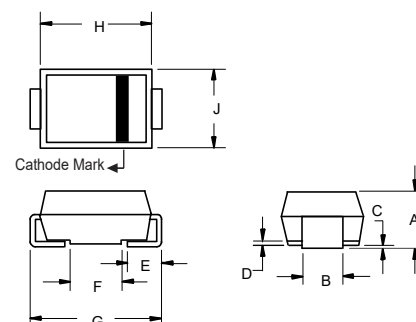
|                                                         |             |                         |                                           |
|---------------------------------------------------------|-------------|-------------------------|-------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$ | 3.0A                    | $T_L=110^\circ\text{C}$                   |
| Peak Forward Surge Current                              | $I_{FSM}$   | 60A                     | 8.3ms, Half Sine                          |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 0.45V<br>0.50V<br>0.60V | $I_{FM}=3.0A$ ;<br>$T_J=25^\circ\text{C}$ |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | $I_R$       | 0.1mA                   | $T_J=25^\circ\text{C}$                    |
| Typical junction capacitance                            | $C_J$       | 220pF<br>180pF<br>130pF | Measured at 1.0MHz, $V_R=4.0V$            |

Note :

1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.
2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

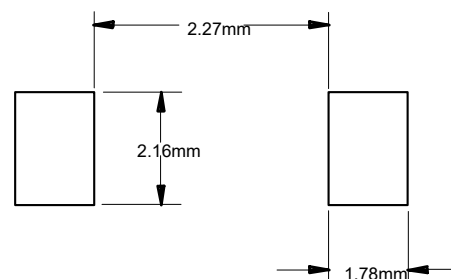
# 3 Amp Low VF Schottky Rectifier 40 to 100 Volts

## SMA (DO-214AC)



| DIM | INCHES |       | MM    |       | NOTE |
|-----|--------|-------|-------|-------|------|
|     | MIN    | MAX   | MIN   | MAX   |      |
| A   | 0.075  | 0.096 | 1.90  | 2.44  |      |
| B   | 0.050  | 0.064 | 1.27  | 1.63  |      |
| C   | 0.002  | 0.008 | 0.051 | 0.203 |      |
| D   | ---    | 0.020 | ---   | 0.51  |      |
| E   | 0.030  | 0.060 | 0.76  | 1.52  |      |
| F   | 0.065  | 0.091 | 1.65  | 2.32  |      |
| G   | 0.189  | 0.220 | 4.80  | 5.59  |      |
| H   | 0.157  | 0.187 | 4.00  | 4.75  |      |
| J   | 0.090  | 0.115 | 2.25  | 2.92  |      |

## SUGGESTED SOLDER PAD LAYOUT



## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

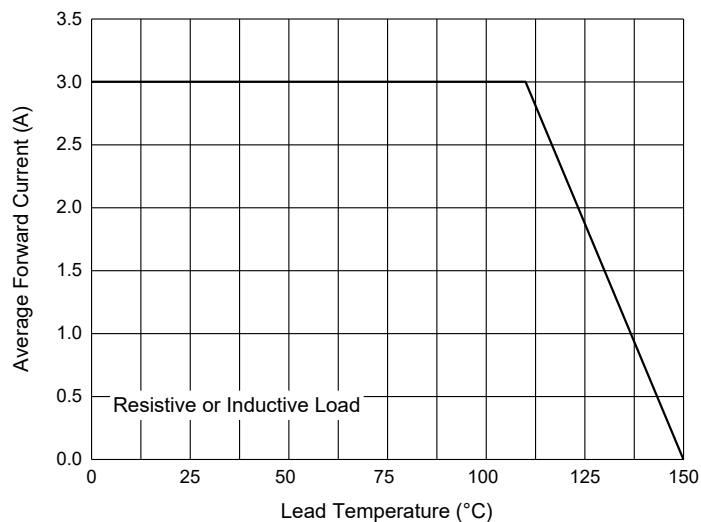


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

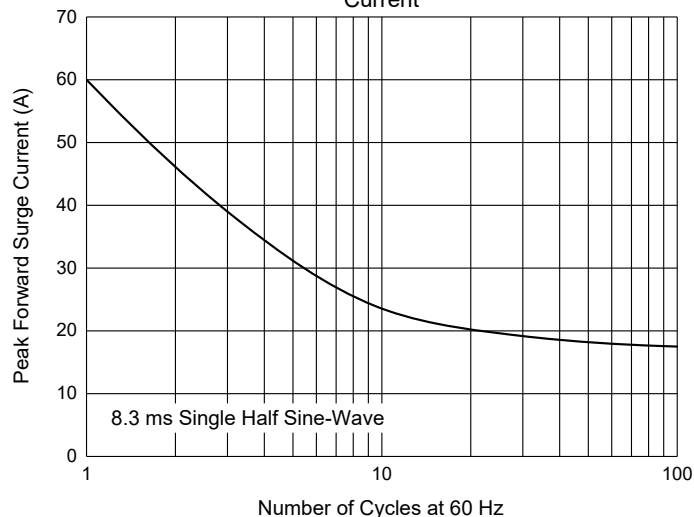


Fig. 3 - Typical Instantaneous Forward Characteristics

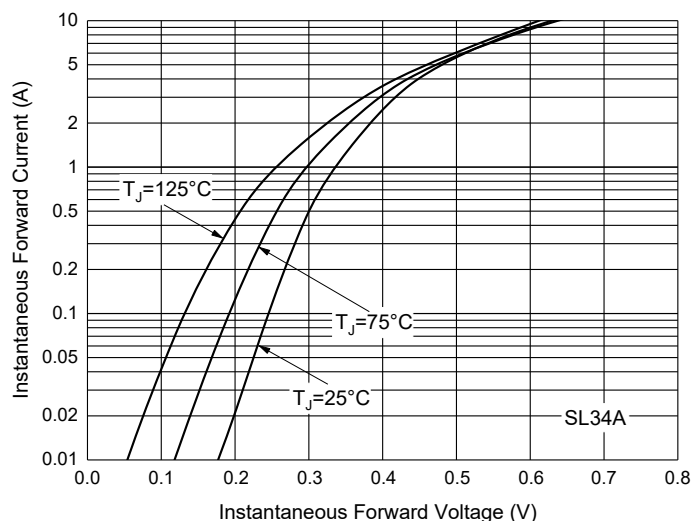


Fig. 4 - Typical Instantaneous Forward Characteristics

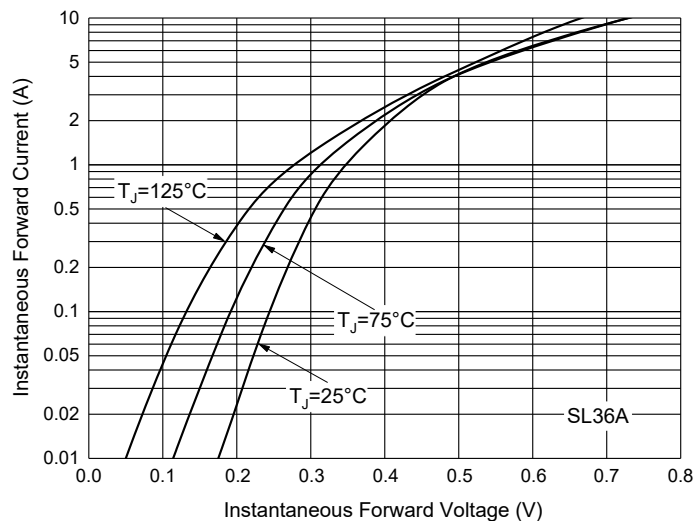


Fig. 5 - Typical Instantaneous Forward Characteristics

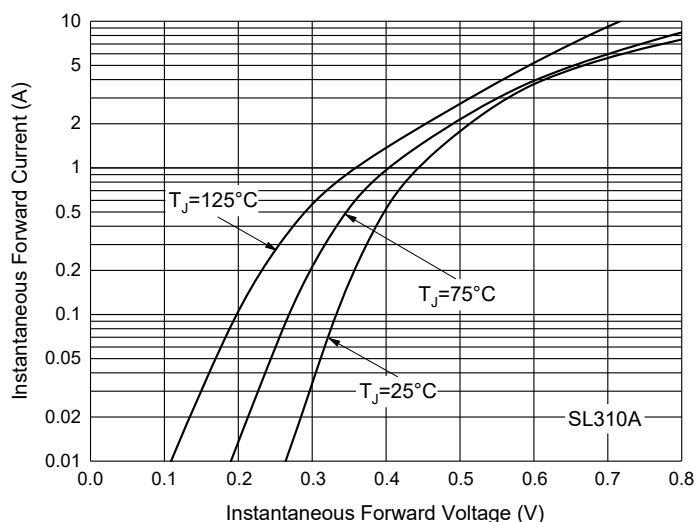
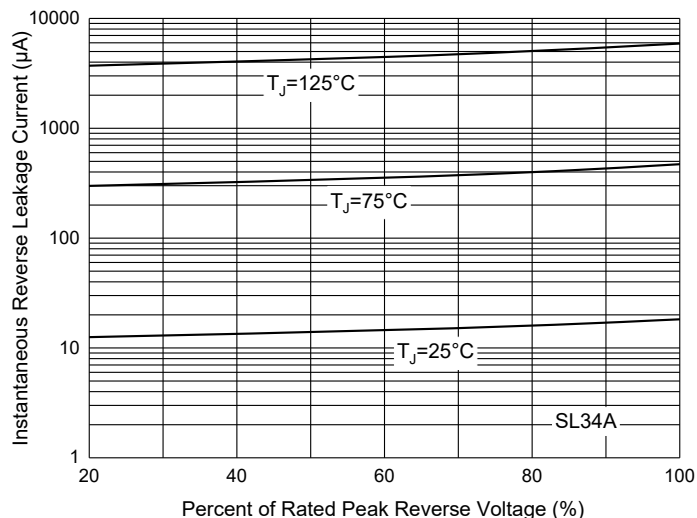


Fig. 6 - Typical Reverse Leakage Characteristics



## Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

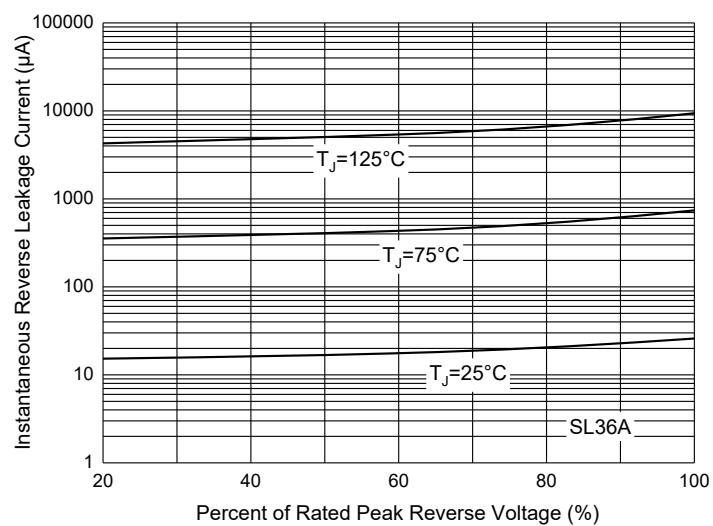
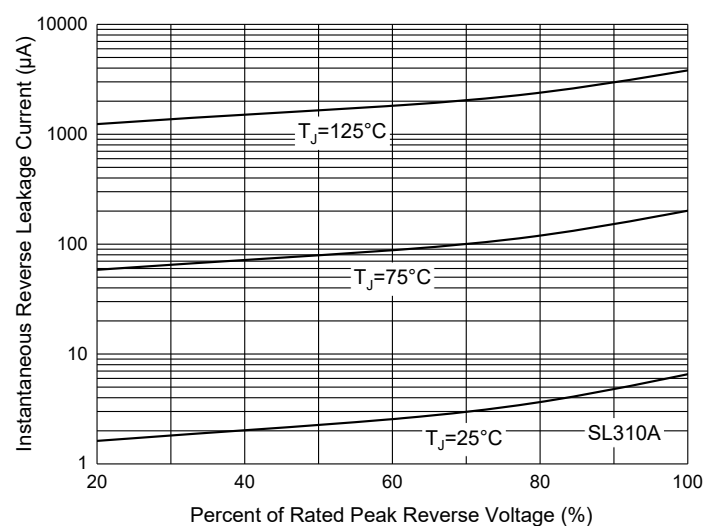


Fig. 8 - Typical Reverse Leakage Characteristics



## Ordering Information

| Device             | Packing               |
|--------------------|-----------------------|
| SL34A-TP~SL310A-TP | Tape&Reel: 5Kpcs/Reel |

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