

## Features

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- High Current Capability with Low Forward Voltage
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- For Surface Mount Applications
- Easy Pick and Place

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C(SK32A-L~SK345A-L)
- Operating Junction Temperature Range: -55°C to +150°C(SK35A-L~SK310A-L)
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 10°C/W Junction to Lead
- Maximum Thermal Resistance: 55°C/W Junction to Ambient

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| SK32A-L         | SK32A          | 20V                                    | 14V                 | 20V                         |
| SK33A-L         | SK33A          | 30V                                    | 21V                 | 30V                         |
| SK34A-L         | SK34A          | 40V                                    | 28V                 | 40V                         |
| SK345A-L        | SK345A         | 45V                                    | 31.5V               | 45V                         |
| SK35A-L         | SK35A          | 50V                                    | 35V                 | 50V                         |
| SK36A-L         | SK36A          | 60V                                    | 42V                 | 60V                         |
| SK38A-L         | SK38A          | 80V                                    | 56V                 | 80V                         |
| SK310A-L        | SK310A         | 100V                                   | 70V                 | 100V                        |

## Electrical Characteristics @ 25°C Unless Otherwise Specified

|  |             |                         |   |
|--|-------------|-------------------------|---|
| Average Forward Current  | $I_{F(AV)}$ | 3.0A                    | Fig.1                                     |
| Peak Forward Surge Current   | $I_{FSM}$   | 80A                     | 8.3ms, Half Sine                          |
| Maximum Instantaneous Forward Voltage<br>SK32A-L~345A-L<br>SK35A-L~36A-L<br>SK38A-L~310A-L | $V_F$       | 0.50V<br>0.75V<br>0.85V | $I_{FM}=3.0A$ ;<br>$T_J=25^{\circ}C^*$    |
| Maximum DC Reverse Current at Rated DC Blocking Voltage                                    | $I_R$       | 0.1mA<br>10mA           | $T_J=25^{\circ}C$ ;<br>$T_J=100^{\circ}C$ |
| Typical Junction Capacitance   | $C_J$       | 150pF                   | Measured at 1.0MHz, $V_R=4.0V$            |

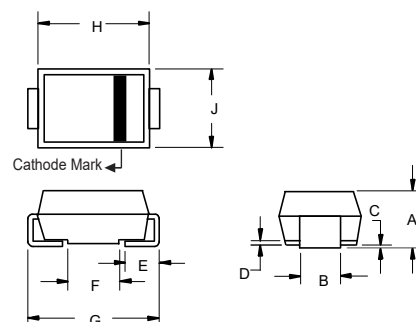
\*Pulse Test: Pulse Width 200  $\mu$ sec, Duty Cycle 2%

Note :

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

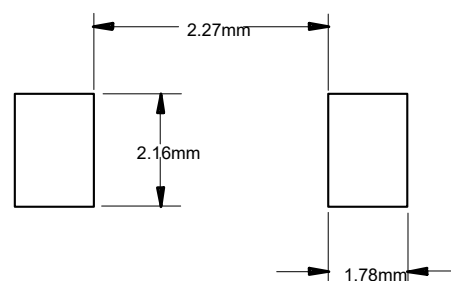
# 3 Amp Schottky Rectifier 20 to 100 Volts

## 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

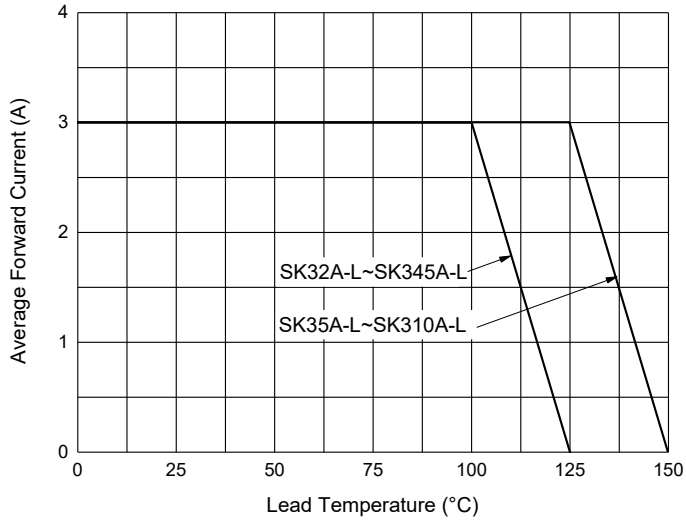


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

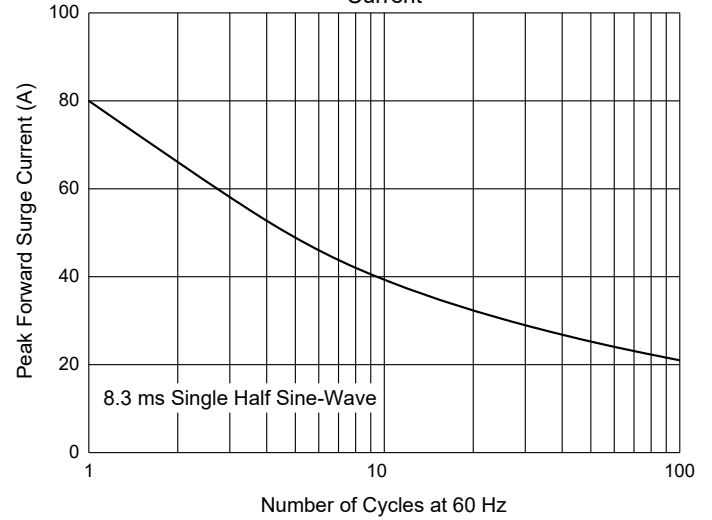


Fig. 3 - Typical Instantaneous Forward Characteristics

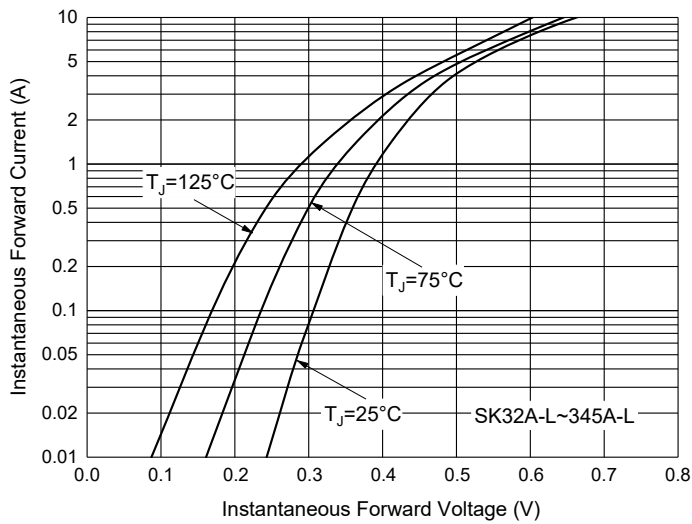


Fig. 4 - Typical Instantaneous Forward Characteristics

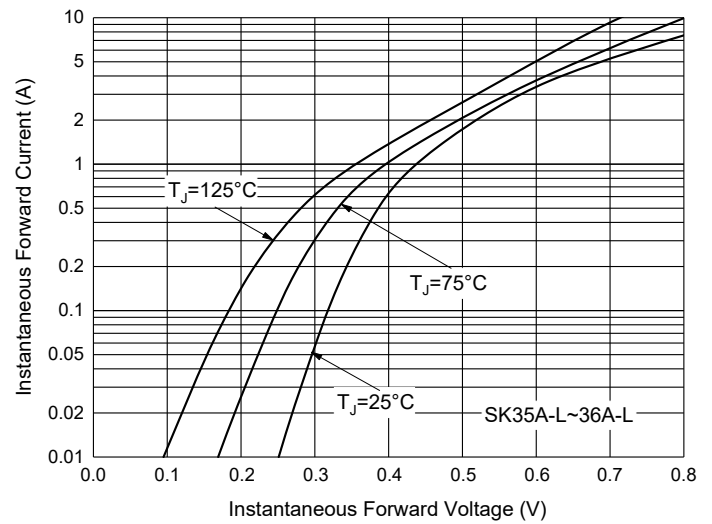


Fig. 5 - Typical Instantaneous Forward Characteristics

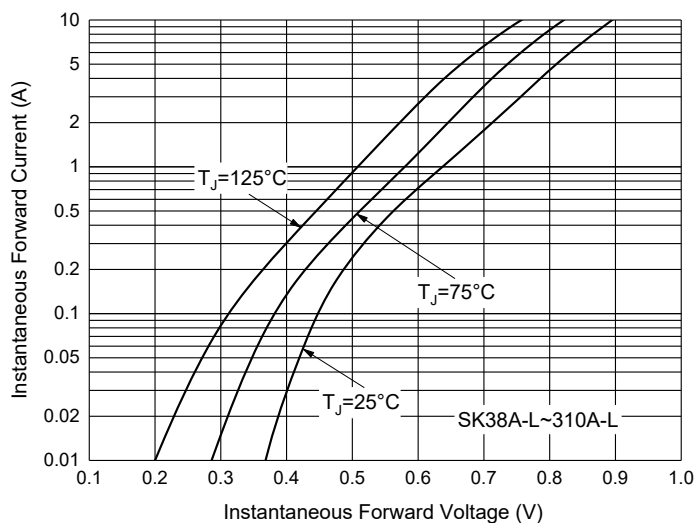
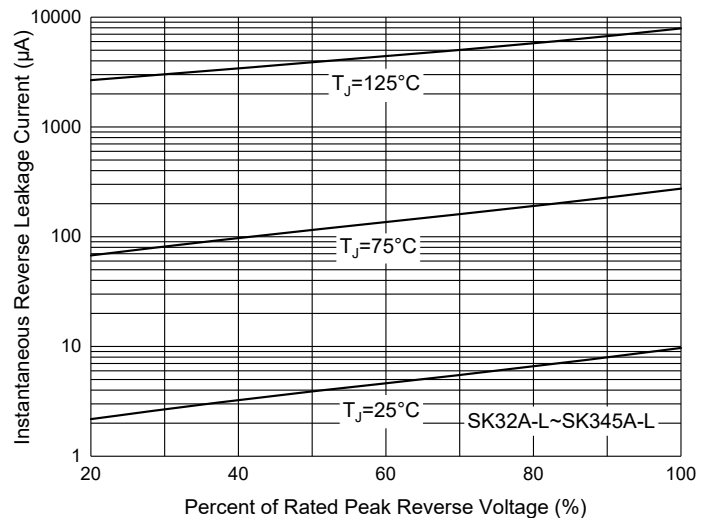


Fig. 6 - Typical Reverse Leakage Characteristics



## Curve Characteristics

Fig. 7 - Typical Reverse Leakage Characteristics

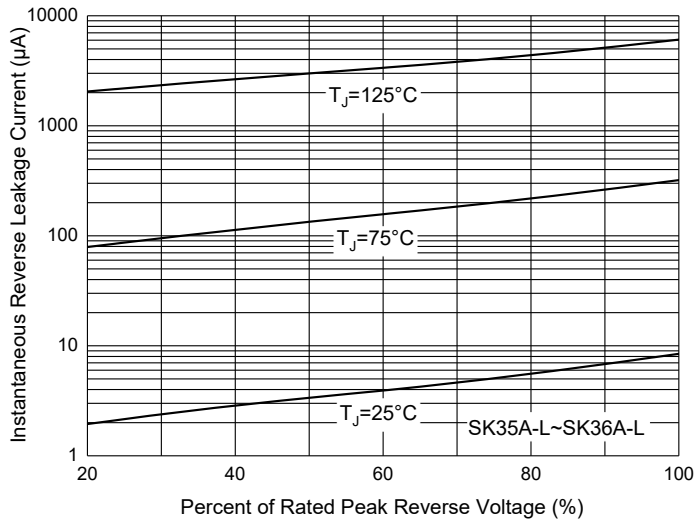
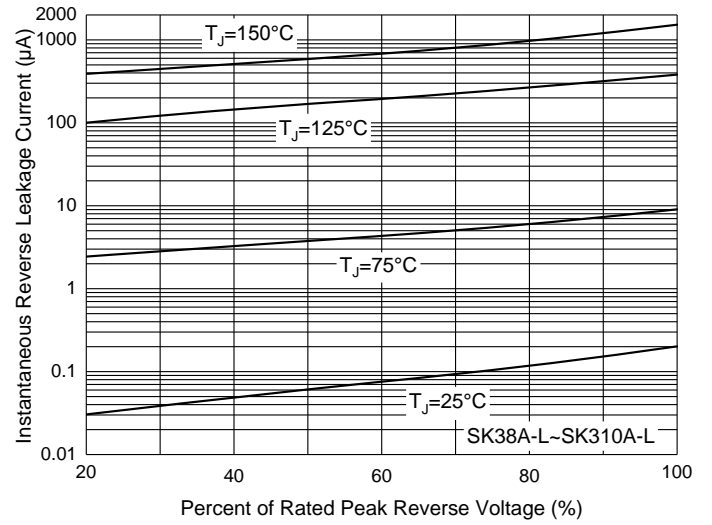


Fig. 8 - Typical Reverse Leakage Characteristics



## Ordering Information

| Device               | Packing               |
|----------------------|-----------------------|
| SK32A-LTP~SK310A-LTP | Tape&Reel: 5Kpcs/Reel |

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