

## Features

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

## Maximum Ratings

- Operating Junction Temperature Range(20V~40V): -55°C to +125°C
- Operating Junction Temperature Range(60V~200V): -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 75°C/W Junction to Ambient
- Typical Thermal Resistance: 25°C/W Junction to Case
- Typical Thermal Resistance: 15°C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| SS22-L          | SS22           | 20V                                    | 14V                 | 20V                         |
| SS23-L          | SS23           | 30V                                    | 21V                 | 30V                         |
| SS24-L          | SS24           | 40V                                    | 28V                 | 40V                         |
| SS25-L          | SS25           | 50V                                    | 35V                 | 50V                         |
| SS26-L          | SS26           | 60V                                    | 42V                 | 60V                         |
| SS28-L          | SS28           | 80V                                    | 56V                 | 80V                         |
| SS210-L         | SS210          | 100V                                   | 70V                 | 100V                        |
| SS2150-L        | S2150          | 150V                                   | 105V                | 150V                        |
| SS220-L         | SS220          | 200V                                   | 140V                | 200V                        |

## Electrical Characteristics @ 25°C Unless Otherwise Specified

|   |             |                                  |   |
|---|-------------|----------------------------------|---|
| Average Forward Current   | $I_{F(AV)}$ | 2.0A                             | See Fig. 1                                |
| Peak Forward Surge Current  | $I_{FSM}$   | 50A                              | 8.3ms, Half Sine                          |
| Maximum Instantaneous Forward Voltage<br>SS22-L~SS24-L<br>SS25-L~SS26-L<br>SS28-L~SS210-L<br>SS2150-L~SS220-L | $V_F$       | 0.55V<br>0.70V<br>0.85V<br>0.90V | $I_{FM}=2.0A;$<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<br>SS22-L~SS28-L<br>SS210-L<br>SS2150-L~SS220-L                                  | $C_J$       | 90pF<br>70pF<br>40pF             | Measured at<br>1.0MHz, $V_R=4.0V$         |

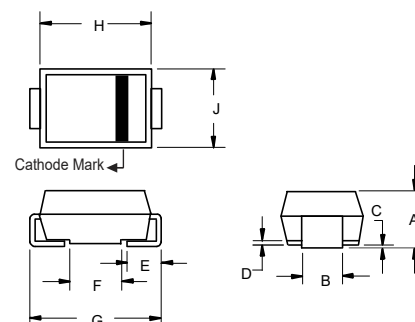
\*Pulse test: Pulse width 300  $\mu$ sec, Duty cycle 2%

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.

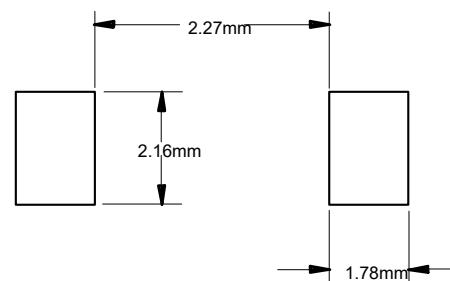
# 2 Amp Schottky Rectifier 20 to 200 Volts

## 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

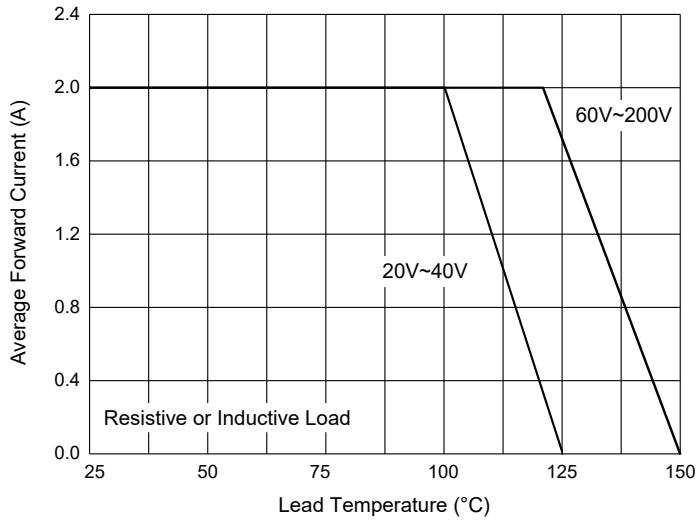


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

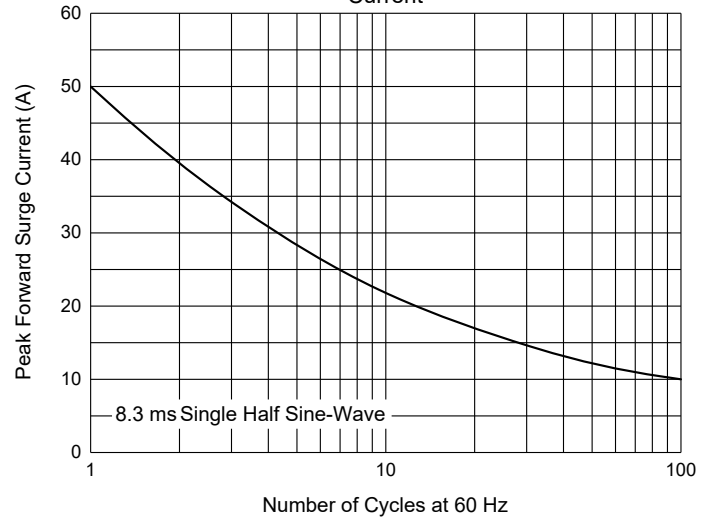


Fig. 3 - Typical Instantaneous Forward Characteristics

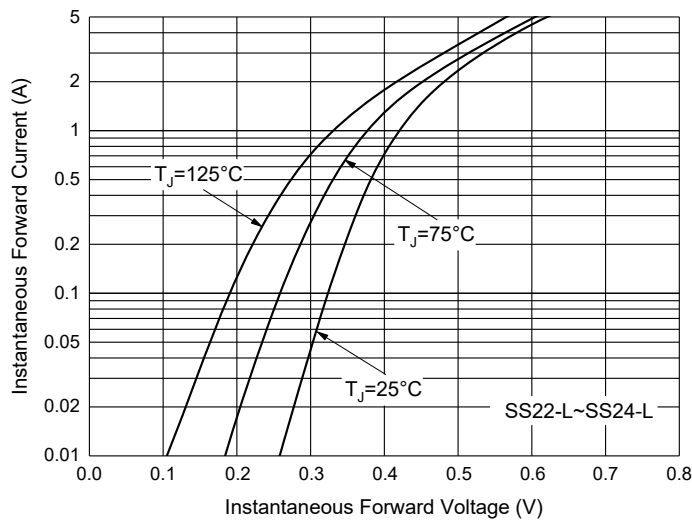


Fig. 4 - Typical Instantaneous Forward Characteristics

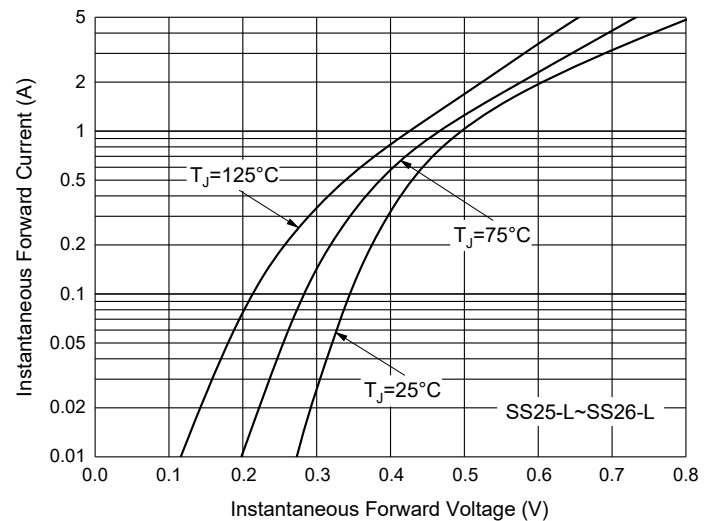


Fig. 5 - Typical Instantaneous Forward Characteristics

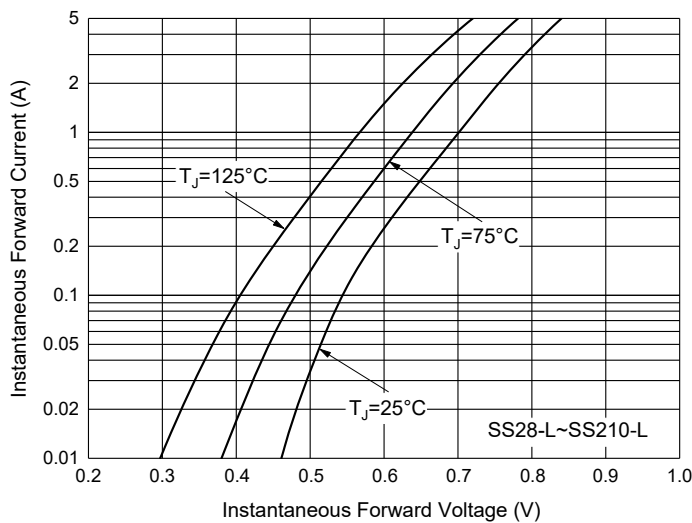
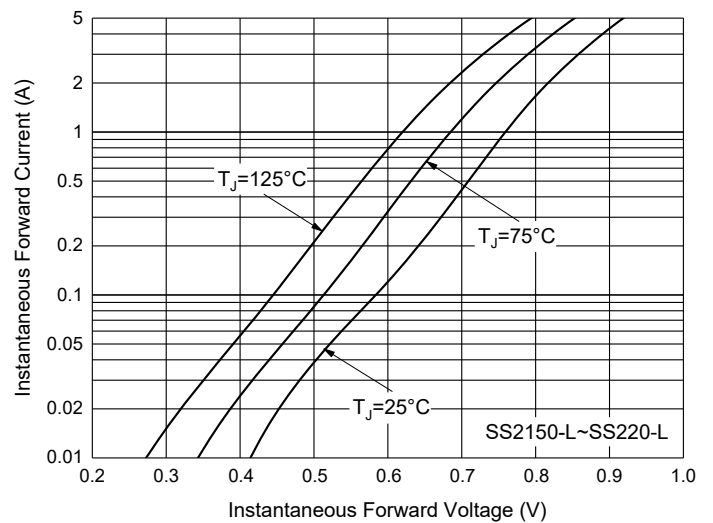


Fig. 6 - Typical Instantaneous Forward Characteristics



**Curve Characteristics**

Fig. 7 - Typical Reverse Leakage Characteristics

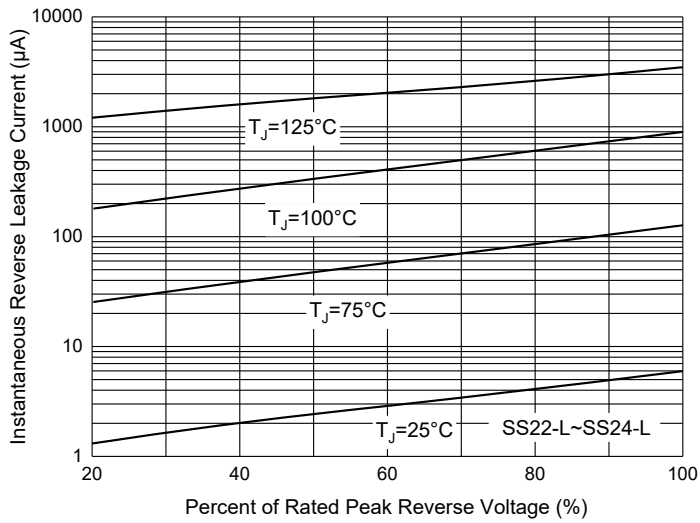


Fig. 8 - Typical Reverse Leakage Characteristics

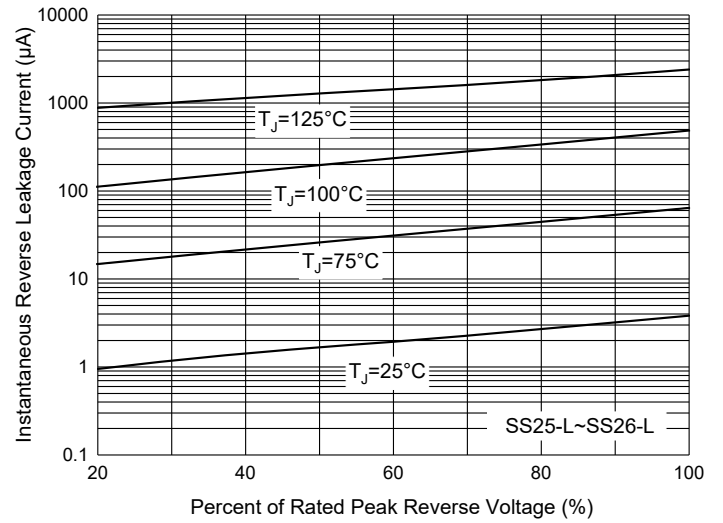


Fig. 9 - Typical Reverse Leakage Characteristics

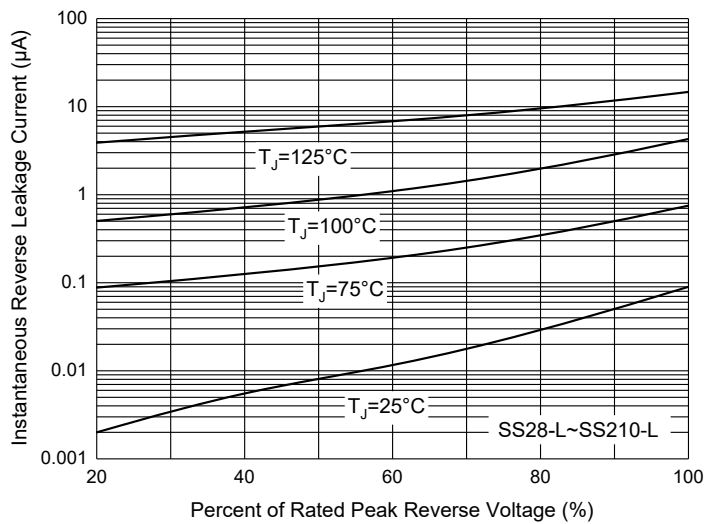


Fig. 10 - Typical Reverse Leakage Characteristics

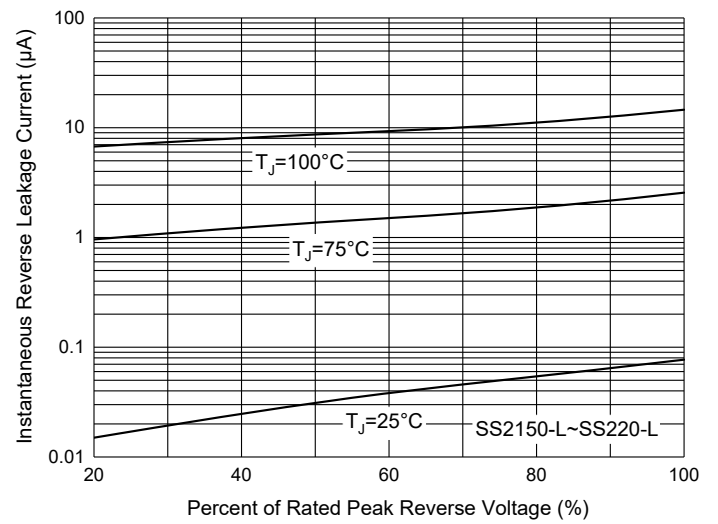


Fig. 11 - Capacitance Characteristics

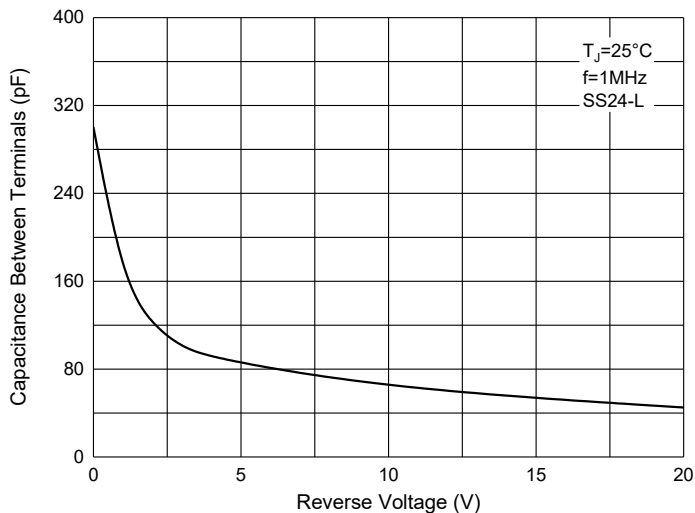
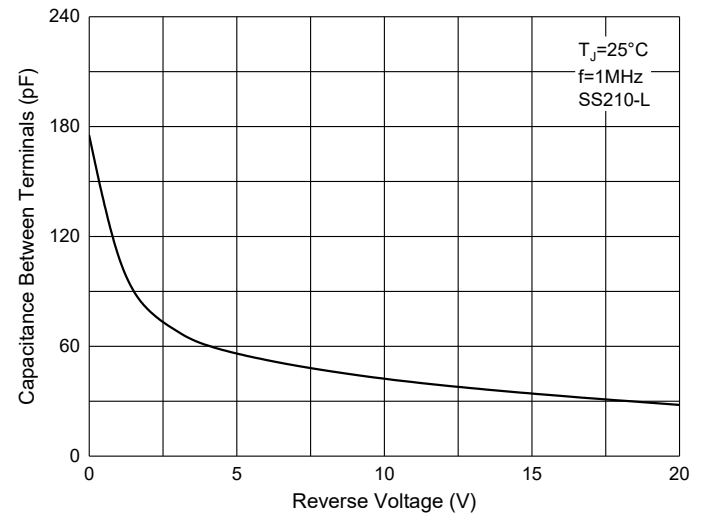


Fig. 12 - Capacitance Characteristics



## Ordering Information

| Device             | Packing               |
|--------------------|-----------------------|
| SS22-LTP~SS220-LTP | Tape&Reel: 5Kpcs/Reel |

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