

## Features

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

## Maximum Ratings

- Operating Junction Temperature Range: -50°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Typical Thermal Resistance(Note3): 20°C/W Junction to Lead
- Typical Thermal Resistance(Note3): 65°C/W Junction to Ambient

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| SS1150-L        | S1150          | 150V                                   | 120V                | 150V                        |
| SS1200-L        | S1200          | 200V                                   | 140V                | 200V                        |

## Electrical Characteristics @ 25°C Unless Otherwise Specified

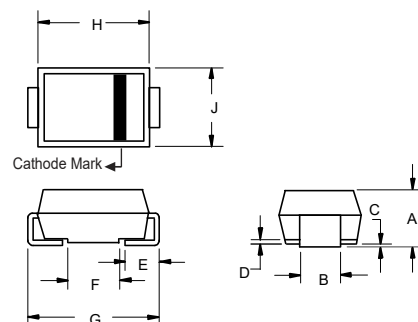
|   |                  |                |   |
|---|------------------|----------------|---|
| Average Forward Current                                 | $I_{F(AV)}$      | 1.0A           | $T_A=100^\circ\text{C}$                             |
| Peak Forward Surge Current                              | $I_{FSM}$        | 30A            | 8.3ms, Half Sine                                    |
| Maximum Instantaneous Forward Voltage                   | $V_F$            | 0.90V<br>0.92V | $I_{FM}=1.0A$ ;<br>$T_J=25^\circ\text{C}$           |
|   | SS1150<br>SS1200 |                |   |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | $I_R$            | 0.05mA<br>1mA  | $T_J=25^\circ\text{C}$ ;<br>$T_J=100^\circ\text{C}$ |
| Typical Junction Capacitance                            | $C_J$            | 110pF          | Measured at 1.0MHz, $V_R=4.0V$                      |

### 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. Mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas.

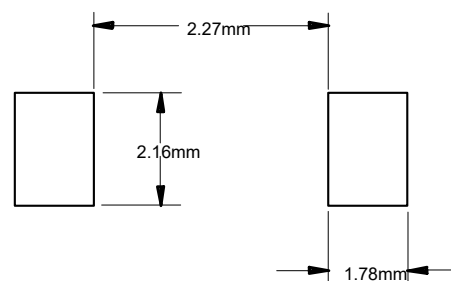
# 1 Amp Schottky Rectifier 150 to 200 Volts

## SMA (DO-214AC)



| DIM | DIMENSIONS |       |       |       | NOTE |
|-----|------------|-------|-------|-------|------|
|     | INCHES     |       | MM    |       |      |
|     | 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

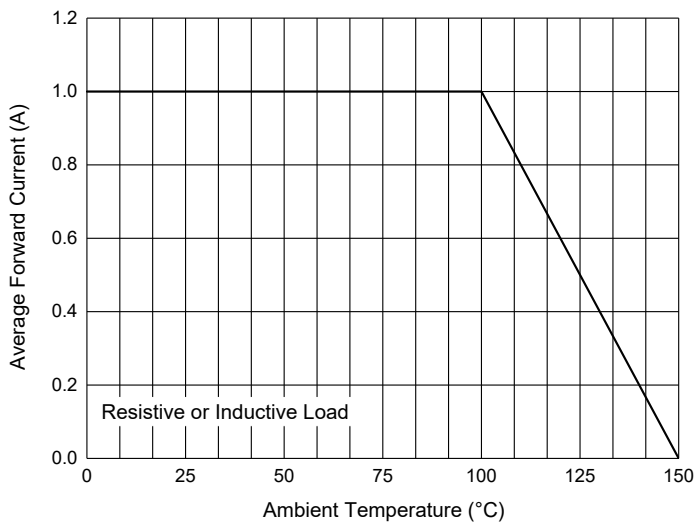


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

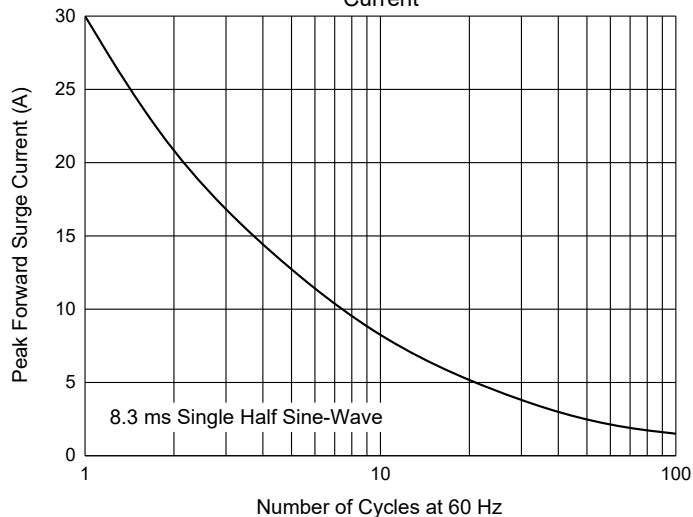


Fig. 3 - Typical Instantaneous Forward Characteristics

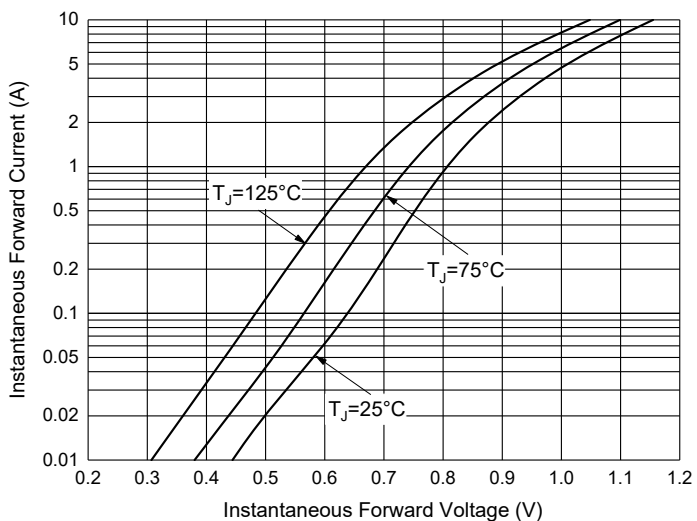
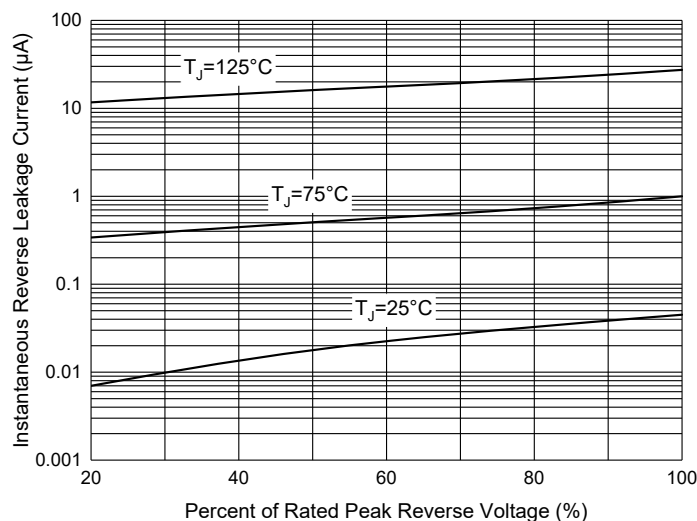


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

| Device                | Packing               |
|-----------------------|-----------------------|
| SS1150-LTP~SS1200-LTP | Tape&Reel: 5Kpcs/Reel |

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