



Micro Commercial Components



Micro Commercial Components  
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## SS1150-L THRU SS1200-L

### Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant (Note1) ("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 Temperature: -50°C to +150°C
- Storage Temperature: -65°C to +150°C
- Maximum Thermal Resistance; 50°C/W Junction To Lead

| MCC Catalog 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                        |

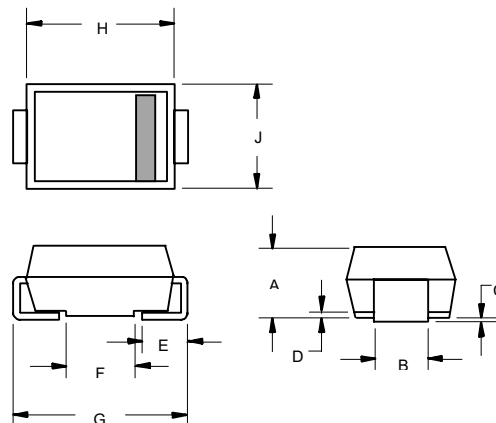
### Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                           |             |               |                                                       |
|-----------------------------------------------------------|-------------|---------------|-------------------------------------------------------|
| Average Forward Current                                   | $I_{F(AV)}$ | 1.0A          | $T_J = 100^\circ\text{C}$                             |
| Peak Forward Surge Current                                | $I_{FSM}$   | 30A           | 8.3ms, half sine                                      |
| Maximum Instantaneous Forward Voltage<br>SS1150<br>SS1200 | $V_F$       | .90V<br>.92V  | $I_{FM} = 1.0A$ ;<br>$T_J = 25^\circ\text{C}^*$       |
| Maximum DC Reverse Current At Rated DC Blocking Voltage   | $I_R$       | 0.05mA<br>1mA | $T_A = 25^\circ\text{C}$<br>$T_A = 100^\circ\text{C}$ |
| Typical Junction Capacitance                              | $C_J$       | 110pF         | Measured at<br>1.0MHz, $V_R = 4.0V$                   |

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

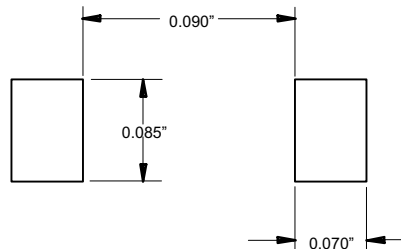
## 1 Amp Schottky Rectifier 150 to 200 Volts

### DO-214AC (SMA) (LEAD FRAME)



| DIM | INCHES |      | MM   |      | NOTE |
|-----|--------|------|------|------|------|
|     | MIN    | MAX  | MIN  | MAX  |      |
| A   | .079   | .096 | 2.00 | 2.44 |      |
| B   | .050   | .064 | 1.27 | 1.63 |      |
| C   | .002   | .008 | .05  | .20  |      |
| D   | —      | .02  | —    | .51  |      |
| E   | .030   | .060 | .76  | 1.52 |      |
| F   | .065   | .091 | 1.65 | 2.32 |      |
| G   | .189   | .220 | 4.80 | 5.59 |      |
| H   | .157   | .181 | 4.00 | 4.60 |      |
| J   | .090   | .115 | 2.25 | 2.92 |      |

### SUGGESTED SOLDER PAD LAYOUT



# SS1150-L thru SS1200-L



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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

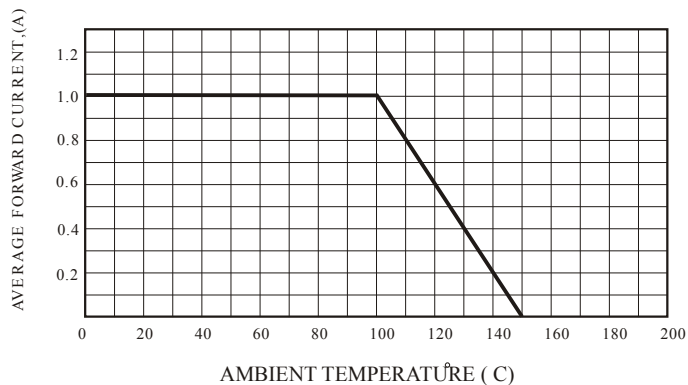


FIG.2-TYPICAL FORWARD CHARACTERISTICS

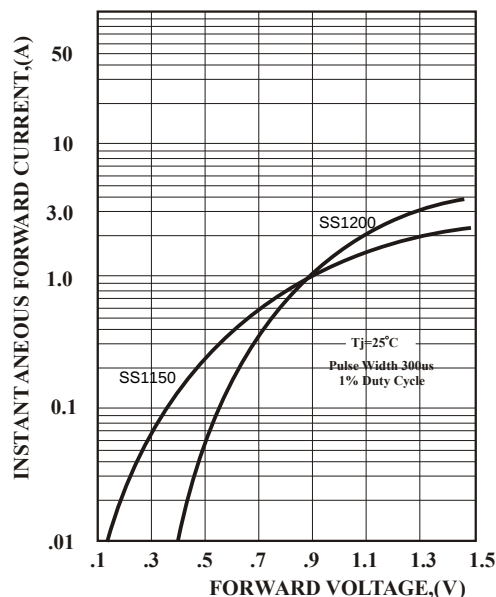


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

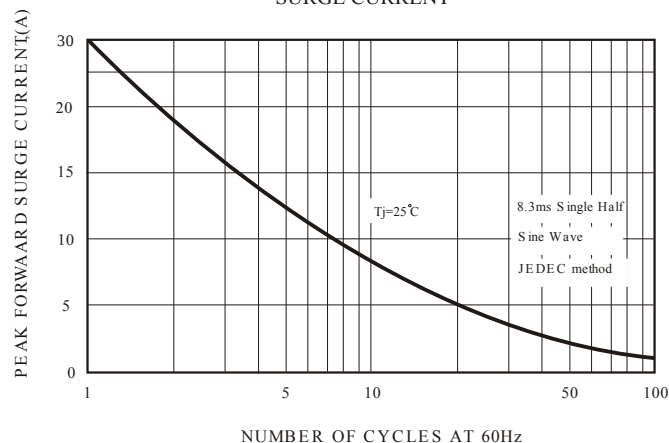


FIG.4-TYPICAL JUNCTION CAPACITANCE

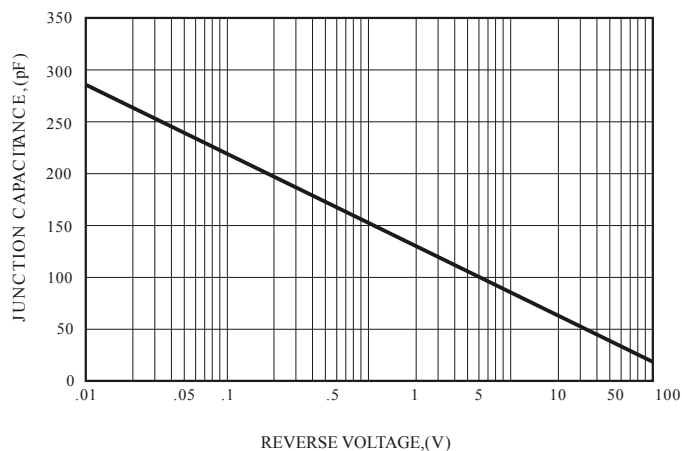
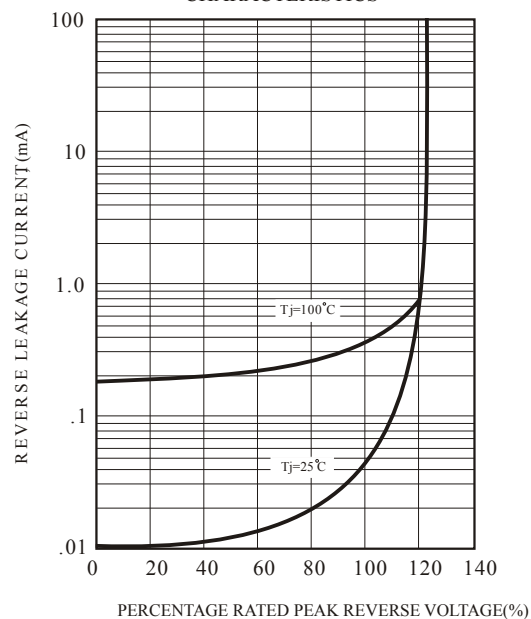


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



## Ordering Information :

| Device         | Packing               |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 5Kpcs/Reel |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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