



Micro Commercial Components



Micro Commercial Components  
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## SK1150-L THRU SK1200-L

### 1 Amp Schottky Rectifier 150 to 200 Volts

## Features

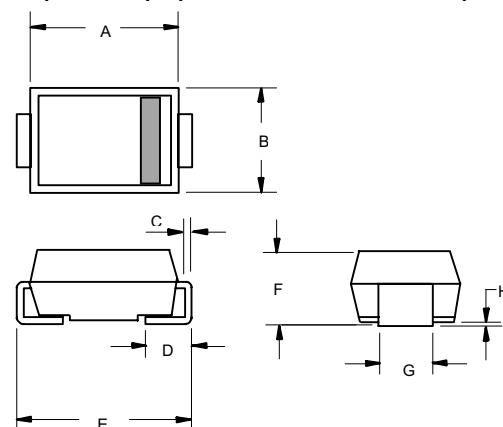
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Low Forward Voltage
- Guard Ring Protection
- High Current Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

## Maximum Ratings

- Operating Temperature: -50°C to +125°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 |
|--------------------|----------------|----------------------------------------|---------------------|-----------------------------|
| SK1150-L           | SK1150         | 150V                                   | 120V                | 150V                        |
| SK1200-L           | SK1200         | 200V                                   | 140V                | 200V                        |

## DO-214AA (SMB) (LEAD FRAME)



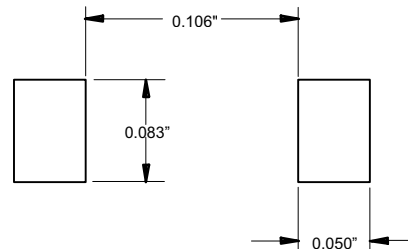
## Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                           |             |               |                                                       |
|-----------------------------------------------------------|-------------|---------------|-------------------------------------------------------|
| 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>SK1150<br>SK1200 | $V_F$       | .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 1.0MHz, $V_R=4.0V$                        |

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

| DIMENSIONS |        |      |      |       |      |
|------------|--------|------|------|-------|------|
| DIM        | INCHES |      | MM   |       | NOTE |
|            | MIN    | MAX  | MIN  | MAX   |      |
| A          | .160   | .185 | 4.06 | 4.70  |      |
| B          | .130   | .155 | 3.30 | 3.94  |      |
| C          | .006   | .012 | 0.15 | 0.31  |      |
| D          | .030   | .060 | 0.76 | 1.52  |      |
| E          | .200   | .220 | 5.08 | 5.59  |      |
| F          | .079   | .096 | 2.00 | 2.44  |      |
| G          | .075   | .087 | 1.91 | 2.21  |      |
| H          | .002   | .008 | 0.05 | 0.203 |      |

## SUGGESTED SOLDER PAD LAYOUT



# SK1150-L thru SK1200-L



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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

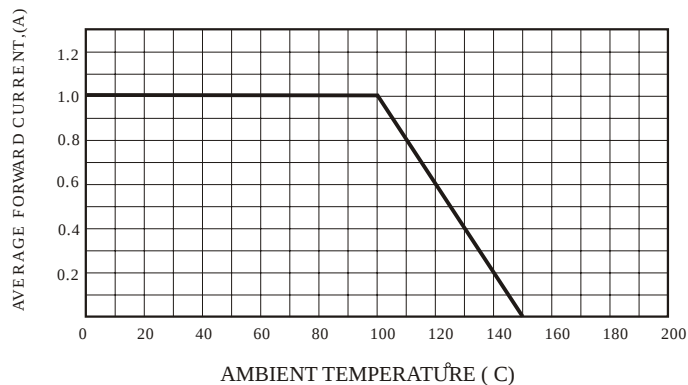


FIG.2-TYPICAL FORWARD CHARACTERISTICS

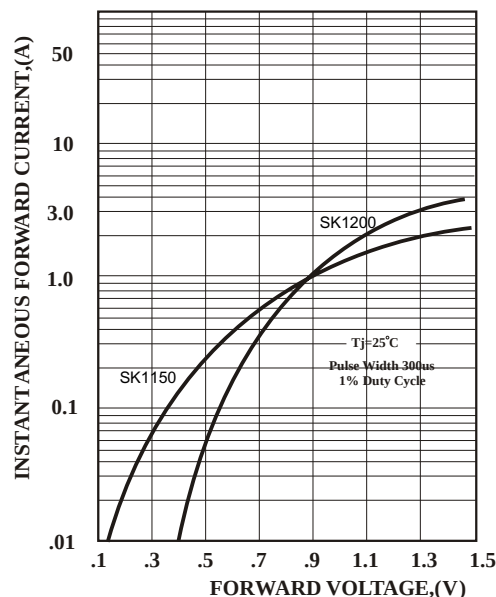


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

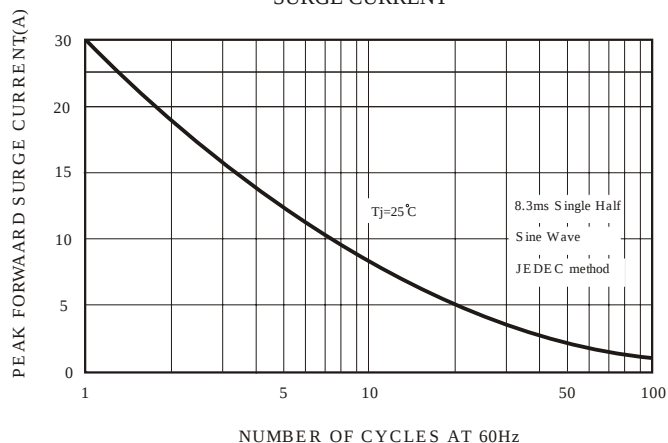


FIG.4-TYPICAL JUNCTION CAPACITANCE

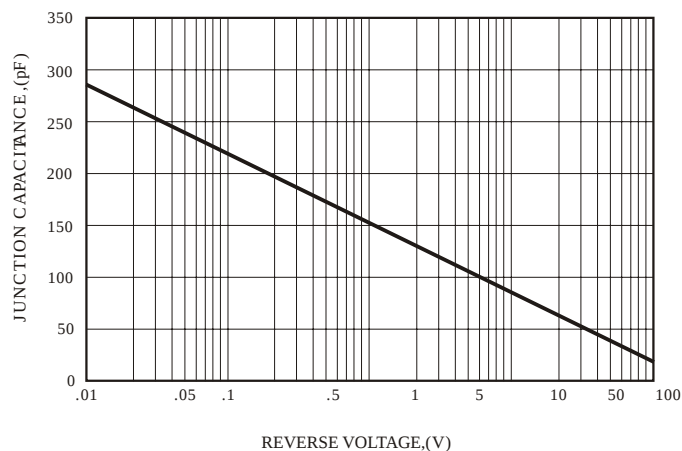
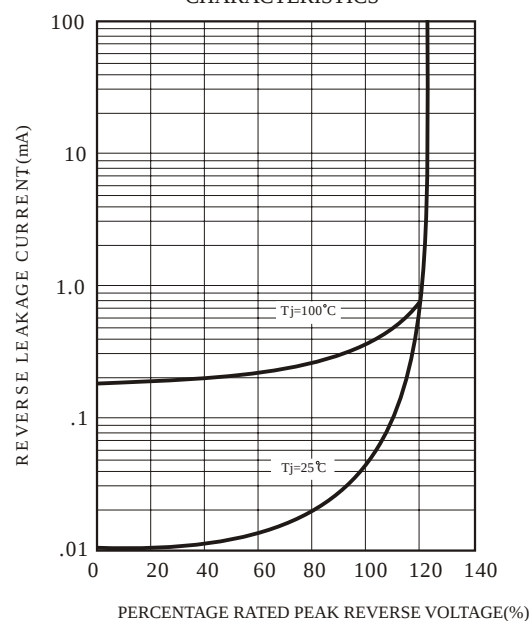


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



## Ordering Information :

| Device                | Packing               |
|-----------------------|-----------------------|
| SK1150-LTP~SK1200-LTP | Tape&Reel: 3Kpcs/Reel |

Note : Adding "-HF" suffix for halogen free, eg. SK1150-LTP-HF~SK1200-LTP-HF

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