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SS12-L **THRU** SS110-L

Features

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

Maximum Ratings

- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 28°C/W Junction To Lead

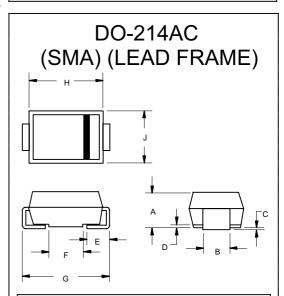
55°C/W Junction To Case 88°C/W Junction To Ambient

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------------|-------------------|---|---------------------------|--------------------------------------|
| SS12-L | SS12 | 20V | 14V | 20V |
| SS13-L | SS13 | 30V | 21V | 30V |
| SS14-L | SS14 | 40V | 28V | 40V |
| SS15-L | SS15 | 50V | 35V | 50V |
| SS16-L | SS16 | 60V | 42V | 60V |
| SS18-L | SS18 | 80V | 56V | 80V |
| SS110-L | SS110 | 100V | 70V | 100V |

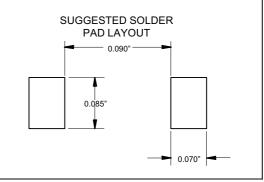
Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Forward Current | I _{F(AV)} | 1.0A | TL(Fig.1) |
|---|--------------------|---------------------------------|---|
| Peak Forward Surge Current | I _{FSM} | 30A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | | | |
| SS12-L~SS14-L SS15-L~SS16-L SS18-L~SS110-L | V _F | 0.50V 0.70V 0.85V | I _{FM} = 1.0A; T _J = 25°C * |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | | | |
| SS12-L~SS16-L SS18-L~SS110-L SS12-L~SS14-L SS15-L~SS110-L | I _R | 0.5mA 0.1mA 10mA 5.0mA | $T_A = 25^{\circ}C$ $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$ $T_A = 100^{\circ}C$ |
| Typical Junction Capacitance SS12-L~SS14-L SS15-L~SS16-L SS18-L~SS110-L | CJ | 52pF 45pF 35pF | Measured at 1.0MHz, V _R =4.0V |
| Junction Temperature SS12-L~SS14-L SS15-L~SS110-L | TJ | -55~+125℃ -55~+150℃ | |

1 Amp Schottky Rectifier 20 to 100 Volts



| DIMENSIONS | | | | | |
|------------|--------|------|------|------|------|
| | INCHES | | MM | | |
| DIM | MIN | MAX | MIN | MAX | NOTE |
| Α | .079 | .096 | 2.00 | 2.44 | |
| В | .050 | .064 | 1.27 | 1.63 | |
| С | .002 | .008 | .05 | .20 | |
| D | | .02 | | .51 | |
| Е | .030 | .060 | .76 | 1.52 | |
| F | .065 | .091 | 1.65 | 2.32 | |
| G | .189 | .220 | 4.80 | 5.59 | |
| Н | .157 | .181 | 4.00 | 4.60 | |
| J | .090 | .115 | 2.25 | 2.92 | |

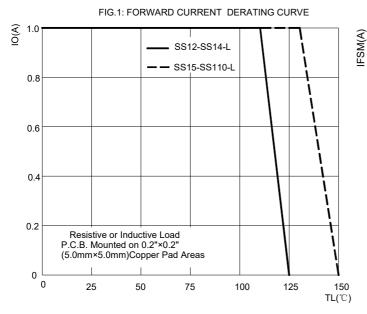


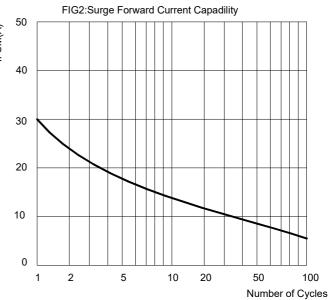
Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

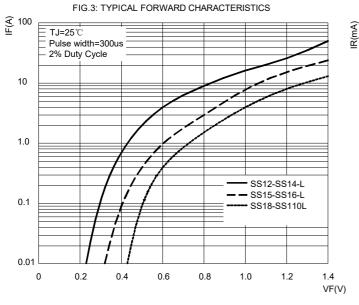
^{*}Pulse test: Pulse width 300 μ sec, Duty cycle 2%

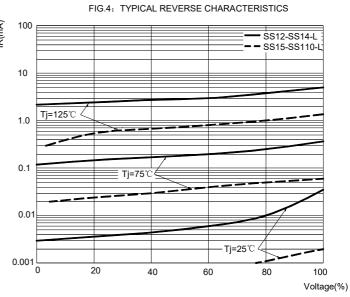


SS12-L thru SS110-L











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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