



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 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
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

Operating Temperature: -55°C to +150°C

Storage Temperature: -55°C to +150°C

• Maximum Thermal Resistance; 35°C/W Junction To Lead

55°C/W Junction To Case 90°C/W Junction To Ambient

| MCC | Device | Maximum | Maximum | Maximum |
|---------|---------|--------------|---------|----------|
| Catalog | Marking | Recurrent | RMS | DC |
| Number | | Peak Reverse | Voltage | Blocking |
| | | Voltage | | 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 |

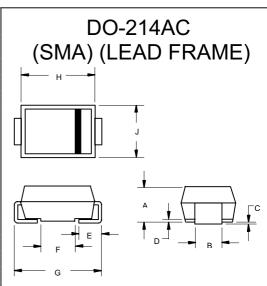
Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Forward Current | I _{F(AV)} | 1.0A | T _L = 100°C |
|-------------------------------|--------------------|--------------|---|
| Peak Forward Surge Current | I _{FSM} | 30A | 8.3ms, half sine |
| Maximum Instantaneous | | | |
| Forward Voltage | | | |
| SS12~14 | V_{F} | .50V | I _{FM} = 1.0A; T _{.1} = 25°C |
| SS15~16 SS18~110 | | .70V .85V | 11 - 25 C |
| Maximum DC | | | |
| Reverse Current At | I _R | 0.5mA | $T_A = 25^{\circ}C$ |
| Rated DC Blocking | | 20mA | T _A = 100°C |
| Voltage Typical Junction | | | |
| Capacitance | | | |
| SS12~16 | C, | 110pF | Measured at |
| SS12~10 SS18~110 | | 30pF | 1.0MHz, V _R =4.0V |
| 3310~110 | | συρι | 1.01VII 12, VR-4.0V |

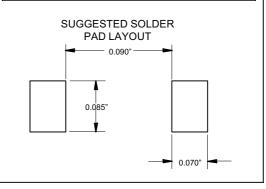
^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

1 Amp Schottky Rectifier 20 to 100 Volts



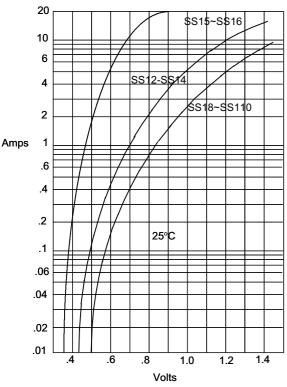
| DIMENSIONS | | | | | | |
|------------|--------|------|------|------|------|--|
| | INCHES | | MM | | | |
| DIM | MIN | MAX | MIN | MAX | NOTE | |
| Α | .079 | .096 | 2.00 | 2.44 | | |
| В | .050 | .064 | 1.27 | 1.63 | | |
| С | .002 | .008 | .05 | .20 | | |
| D | | .02 | | .51 | | |
| E | .030 | .060 | .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 | | |



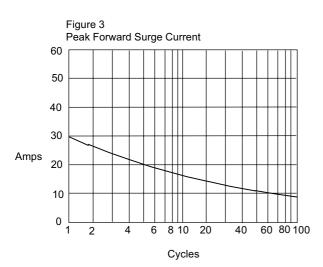
SS12-L thru SS110-L



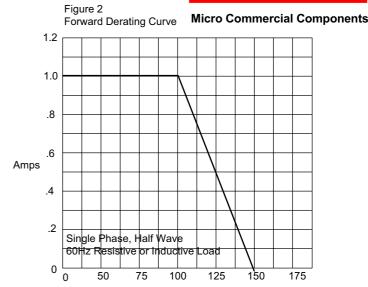
Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts

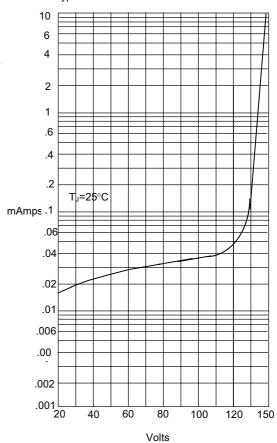


Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



Average Forward Rectified Current - Amperes/ersus Lead Temperature -°C

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperesersus
Percent Of Rated Peak Reverse Voltage - Volts



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Ordering Information:

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

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