



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 SK32 THRU SK310

### **Features**

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- For Surface Mount Applications
- High Current Capability With Low Forward Voltage
- High Temp Soldering: 260 °C for 10 Seconds At Terminals
- 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 :10°C/W Junction To Lead
- Maximum Thermal Resistance :55°C/W Junction To Ambiemt

| MCC     | Device  | Maximum      | Maximum | Maximum  |
|---------|---------|--------------|---------|----------|
| Catalog | Marking | Recurrent    | RMS     | DC       |
| Number  |         | Peak Reverse | Voltage | Blocking |
|         |         | Voltage      |         | Voltage  |
| SK32    | SK32    | 20V          | 14V     | 20V      |
| SK33    | SK33    | 30V          | 21V     | 30V      |
| SK34    | SK34    | 40V          | 28V     | 40V      |
| SK35    | SK35    | 50V          | 35V     | 50V      |
| SK36    | SK36    | 60V          | 42V     | 60V      |
| SK38    | SK38    | 80V          | 56V     | 80V      |
| SK310   | SK310   | 100V         | 70V     | 100V     |

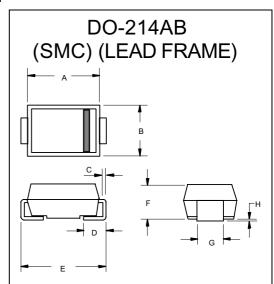
### Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Forward<br>Current                                     | $I_{F(AV)}$      | 3.0A                 | T <sub>L</sub> = 100°C                            |
|----------------------------------------------------------------|------------------|----------------------|---------------------------------------------------|
| Peak Forward Surge<br>Current                                  | I <sub>FSM</sub> | 100A                 | 8.3ms, half sine                                  |
| Maximum Instantaneous Forward Voltage SK32-34 SK35-36 SK38-310 | V <sub>F</sub>   | .50V<br>.75V<br>.85V | I <sub>FM</sub> = 3.0A;<br>T <sub>J</sub> = 25°C* |
| Maximum DC Reverse Current At Rated DC Blocking Voltage        | I <sub>R</sub>   | .5mA<br>20mA         | T <sub>J</sub> = 25°C<br>T <sub>J</sub> = 100°C   |
| Typical Junction<br>Capacitance                                | С                | 250pF                | Measured at 1.0MHz, V <sub>R</sub> =4.0V          |

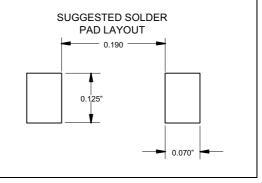
<sup>\*</sup>Pulse test: Pulse width 200 µsec, Duty cycle 2%

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

## 3 Amp Schottky Rectifier 20 to 100 Volts



| DIMENSIONS |        |      |       |       |      |  |  |
|------------|--------|------|-------|-------|------|--|--|
|            | INCHES |      | MM    |       |      |  |  |
| DIM        | MIN    | MAX  | MIN   | MAX   | NOTE |  |  |
| Α          | .260   | .280 | 6.60  | 7.11  |      |  |  |
| В          | .220   | .245 | 5.59  | 6.22  |      |  |  |
| С          | .006   | .012 | 0.15  | 0.31  |      |  |  |
| D          | .030   | .060 | 0.76  | 1.52  |      |  |  |
| ш          | .305   | .320 | 7.75  | 8.13  |      |  |  |
| F          | .079   | .103 | 2.00  | 2.62  |      |  |  |
| G          | .108   | .128 | 2.75  | 3.25  |      |  |  |
| Ι          | .002   | .008 | 0.050 | 0.203 |      |  |  |

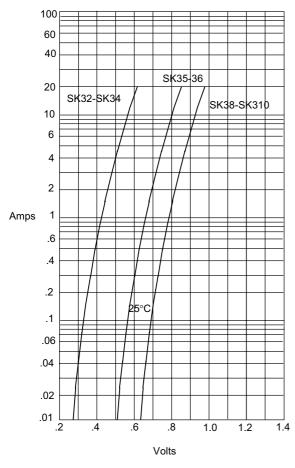


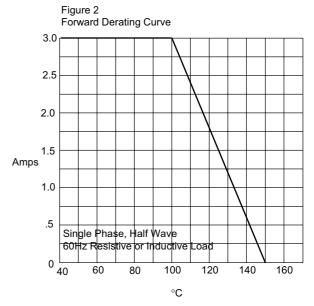
## SK32 thru SK310

Figure 1
Typical Forward Characteristics



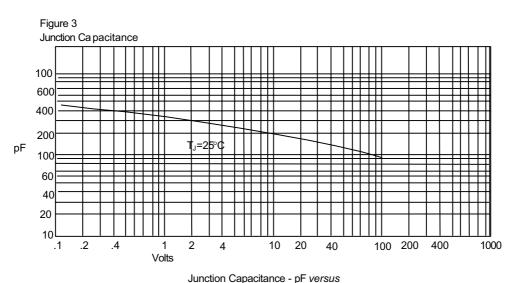
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Average Forward Rectified Current - Amperes \textit{versus} Lead Temperature -°C

Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



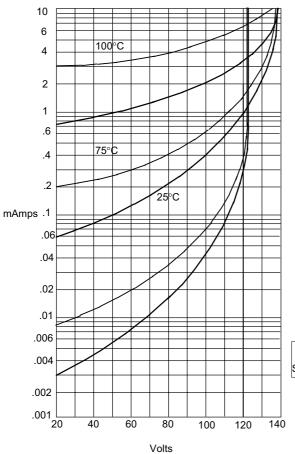
Reverse Voltage - Volts

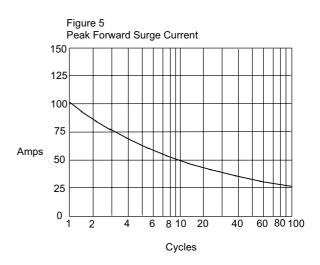
# SK32 thru SK310

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Figure 4
Typical Reverse Characteristics

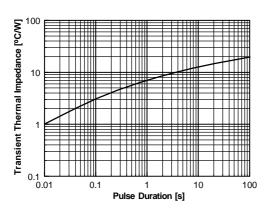




Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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

Figure 6
Thermal Impedance Characteristics





### Ordering Information :

| Device         | Packing               |  |
|----------------|-----------------------|--|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel |  |

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