

Micro Commercial Components



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# SK82L THRU SK810L

### **Features**

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

### **Maximum Ratings**

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 18°C/W Junction to Lead

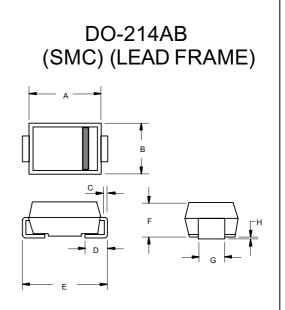
| MCC<br>Catalog<br>Number | Device<br>Marking | Maximum<br>Reccurrent<br>Peak<br>Reverse<br>Voltage | Maximum<br>RMS<br>Voltage | Maximum<br>DC<br>Blocking<br>Voltage |
|--------------------------|-------------------|---|---------------------------|--------------------------------------|
| SK82L                    | SK82              | 20V   | 14V                       | 20V                                  |
| SK83L                    | SK83              | 30V   | 21V                       | 30V                                  |
| SK835L                   | SK835             | 35V   | 24.5V                     | 35V                                  |
| SK84L                    | SK84              | 40V   | 28V                       | 40V                                  |
| SK845L                   | SK845             | 45V   | 31.5V                     | 45V                                  |
| SK86L                    | SK86              | 60V   | 42V                       | 60V                                  |
| SK88L                    | SK88              | 80V   | 56V                       | 80V                                  |
| SK810L                   | SK810             | 100V  | 70V                       | 100V                                 |

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

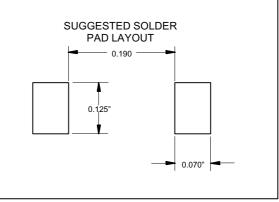
| Average Forward<br>Current   | I <sub>F(AV)</sub> | 8.0A         | T <sub>J</sub> =95°C                           |
|--|--------------------|--------------|--|
| Peak Forward<br>Surge Current  | I <sub>FSM</sub>   | 200A         | 8.3ms half sine                                |
| Maximum<br>Instantaneous<br>Forward Voltage<br>SK82L-86L<br>SK88L-810L | V <sub>F</sub>     | .65V<br>.80V | I <sub>FM</sub> =8.0A<br>T <sub>A</sub> =25°C  |
| Maximum DC<br>Reverse Current<br>At Rated DC<br>Blocking Voltage       | I <sub>R</sub>     | 1mA<br>20mA  | TJ=25°C<br>TJ=100°C                            |
| Typical Junction<br>Capacitance  | CJ                 | 400pF        | Measured at<br>1.0MHz,<br>V <sub>R</sub> =4.0V |

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

## 8.0 Amp Schottky Rectifier 20 to 100 Volts



| DIMENSIONS |        |      |       |       |      |  |
|------------|--------|------|-------|-------|------|--|
|            | INCHES |      | MM    |       |      |  |
| DIM        | MIN    | MAX  | MIN   | MAX   | NOTE |  |
| А          | .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  |      |  |
| E          | .305   | .320 | 7.75  | 8.13  |      |  |
| F          | .079   | .103 | 2.00  | 2.62  |      |  |
| G          | .108   | .128 | 2.75  | 3.25  |      |  |
| Н          | .002   | .008 | 0.050 | 0.203 |      |  |

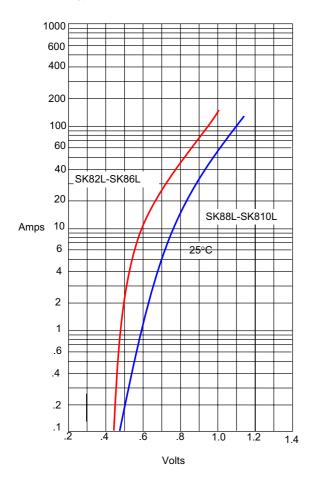


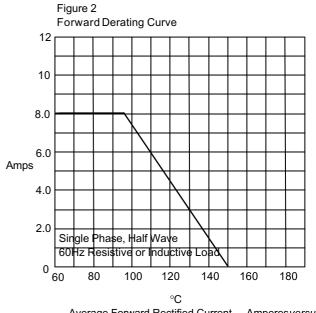
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## SK82L thru SK810L

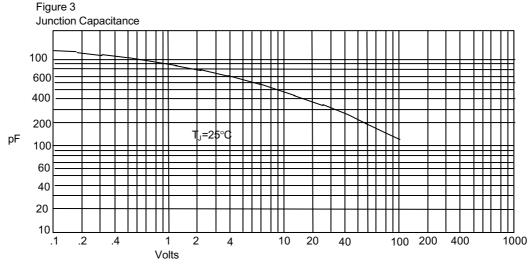
Figure 1 Typical Forward Characteristics

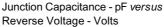




Average Forward Rectified Current - Amperesversus Junction Temperature  $\ -^\circ C$ 

Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

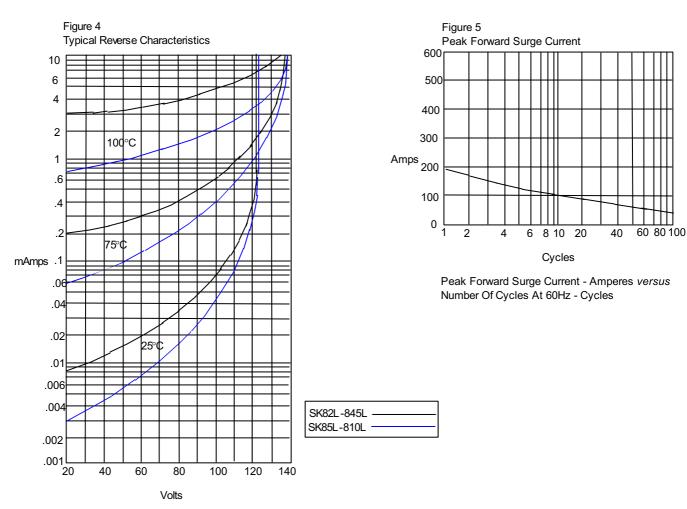




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## SK82L thru SK810L



Instantaneous Reverse Leakage Current - MicroAmperes versus Percent Of Rated Peak Reverse Voltage - Volts

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### **Ordering Information :**

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

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

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