Features
- Lead Free Finish/RoHs Compliant (Note1) (*P*Suffix designates Compliant. See ordering information)
- For Surface Mount Applications
- Extremely Low Thermal Resistance
- Easy Pick And Place
- High Current Capability With Low Forward Voltage
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1

Maximum Ratings
- Operating Temperature: -50°C to +125°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 10°C/W Junction To Lead

<table>
<thead>
<tr>
<th>MCC Part Number</th>
<th>Device Marking</th>
<th>Maximum Recurrent Peak Reverse Voltage</th>
<th>Maximum RMS Voltage</th>
<th>Maximum DC Blocking Voltage</th>
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<tr>
<td>SK32A-LT</td>
<td>SK32A</td>
<td>20V</td>
<td>14V</td>
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<td>35V</td>
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<td>SK36A-LT</td>
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<td>56V</td>
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<td>SK310A-LT</td>
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<td>100V</td>
<td>70V</td>
<td>100V</td>
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</tbody>
</table>

Electrical Characteristics @ 25°C Unless Otherwise Specified
- Average Forward Current $I_{F(AV)}$: 3.0A $T_A = 125°C$
- Peak Forward Surge Current $I_{FSM}$: 80A 8.3ms, half sine
- Maximum Instantaneous Forward Voltage $V_F$: .50V .75V .85V
  - $I_{FM} = 3.0A$; $T_J = 25°C^*$
- Maximum DC Reverse Current At Rated DC Blocking Voltage $I_R$: .5mA 20mA
  - $T_J = 25°C$ $T_J = 100°C$
- Typical Junction Capacitance $C_J$: 250pF Measured at 1.0MHz, $V_p=4.0V$

*Pulse test: Pulse width 200 µsec, Duty cycle 2%

SK32A-LT thru SK310A-LT

Figure 1
Typical Forward Characteristics

Figure 2
Forward Derating Curve

Figure 3
Junction Capacitance

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Figure 4
Typical Reverse Characteristics

Figure 5
Peak Forward Surge Current

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

Peak Forward Surge Current - Amperes versus Number Of Cycles At 60Hz - Cycles

SK32A-34A
SK35A-310A
Ordering Information

<table>
<thead>
<tr>
<th>Device (Part Number)</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP</td>
<td>Tape &amp; Reel; 5K pcs/Reel</td>
</tr>
</tbody>
</table>

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