





## 2.0 Amp. Surface Mount Schottky Barrier Rectifier

|  |   |                                 |  |
|--|---|---------------------------------|--|
| <p><b>DO-214AC / SMA</b></p>  | <p><b>Voltage</b><br/>40 V to 150 V</p>   | <p><b>Current</b><br/>2.0 A</p> |  |
|  | <p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>Low profile package</li> <li>Ideal for automated placement</li> <li>Low power losses, high efficiency</li> <li>High surge current capability</li> <li>Guarding for overvoltage protection</li> <li>Low forward voltage drop</li> <li>Solder dip 260°C, 10s</li> <li>Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC</li> <li>Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C</li> </ul>              |                                 | <br><br><br><b>RoHS COMPLIANT</b> |
|  | <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li><b>Case:</b> DO-214AC (SMA). Epoxy meets UL 94V-0 flammability rating.</li> <li><b>Polarity:</b> Color band denotes cathode end.</li> <li><b>Terminals:</b> Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test. HE3 suffix for high reliability grade (AEC Q101 qualified), meets JESD 201 class 2 whisker test.</li> </ul> |                                 |  |
|  | <p><b>TYPICAL APPLICATIONS</b></p> <p>Used in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications.</p>  |                                 |  |

### Maximum Ratings and Electrical Characteristics at 25 °C

|              |  | SK24A           | SK26A           | SK210A | SK215A |
|--------------|--|-----------------|-----------------|--------|--------|
| Marking code |  | IL              | II              | IY     | IZ     |
| $V_{RRM}$    | Maximum Recurrent Peak Reverse Voltage (V)   | 40              | 60              | 100    | 150    |
| $V_{RMS}$    | Maximum RMS Voltage (V)  | 28              | 42              | 70     | 105    |
| $V_{DC}$     | Maximum DC Blocking Voltage (V)  | 40              | 60              | 100    | 150    |
| $I_{F(AV)}$  | Maximum Average Forward Rectified Current at $T_c$ (See graphic)                                   | 2.0 A           |                 |        |        |
| $I_{FSM}$    | Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method) | 50 A            |                 |        |        |
| $T_j$        | Operating Temperature Range  | -55°C to +125°C | -55°C to +150°C |        |        |
| $T_{stg}$    | Storage Temperature Range  | -55°C to +150°C |                 |        |        |

### Electrical Characteristics at $T_{amb} = 25\text{ °C}$

|             |   |         |        |        |        |
|-------------|---|---------|--------|--------|--------|
| $V_F$       | Maximum Instantaneous Forward Voltage @ 2.0 A (Note 1)  | 0.5 V   | 0.7 V  | 0.85 V | 0.95 V |
| $I_R$       | Maximum DC Reverse Current $T_j = 25\text{ °C}$ at Rated DC Blocking Voltage $T_j = 100\text{ °C}$ (Note 3) | 0.5 mA  |        | 0.1 mA |        |
|             |   | 10 mA   | 5.0 mA | 2.0 mA |        |
| $C_j$       | Typical Junction Capacitance (Note 4)   | 190 pF  | 150 pF | 120 pF |        |
| $R_{thj-a}$ | Typical Thermal Resistance (Note 2)   | 88 °C/W |        |        |        |

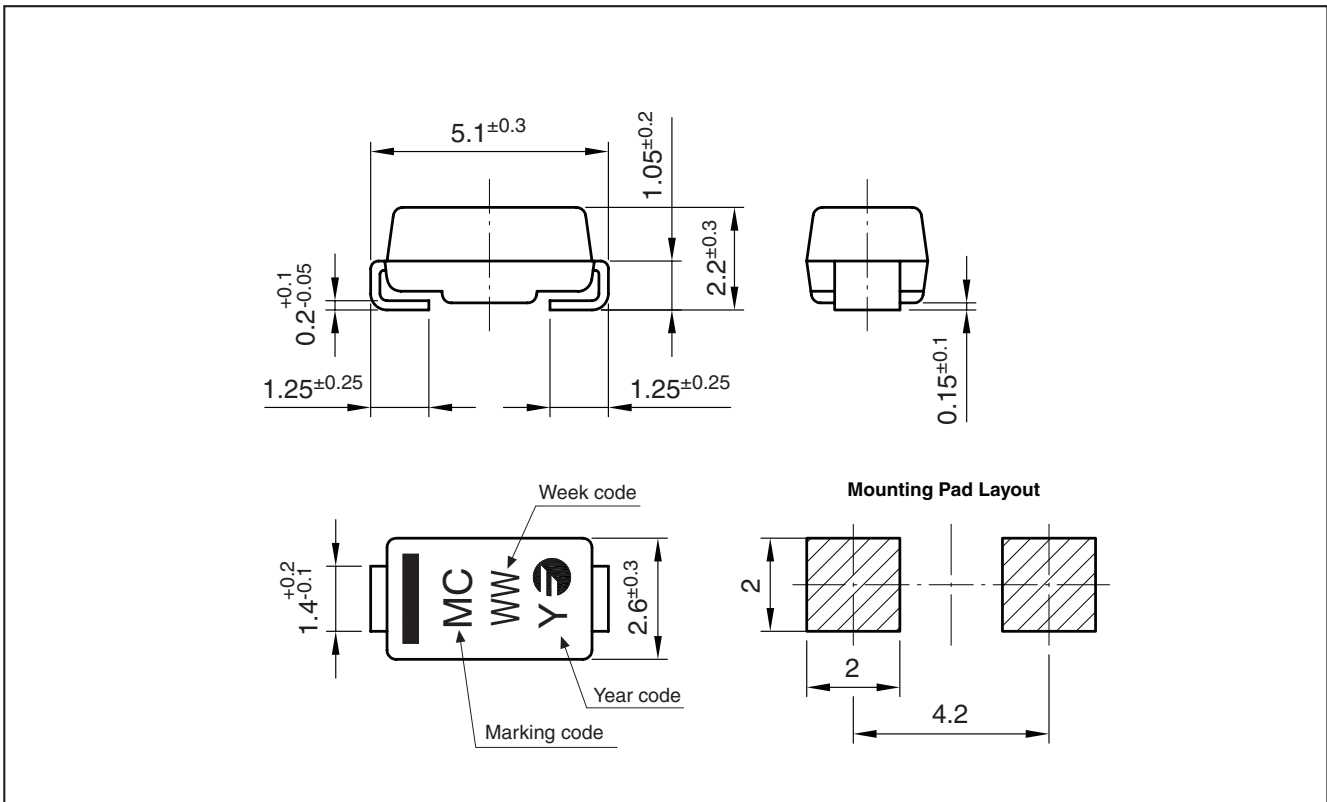
- Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle  
 2. Thermal Resistance from Junction to Case per diode  
 3. Pulse test: Pulse width ≤ 40ms  
 4. Measured at 1.0MHz and Applies Reverse Voltage of 4.0V. D.C.

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**Ordering information**

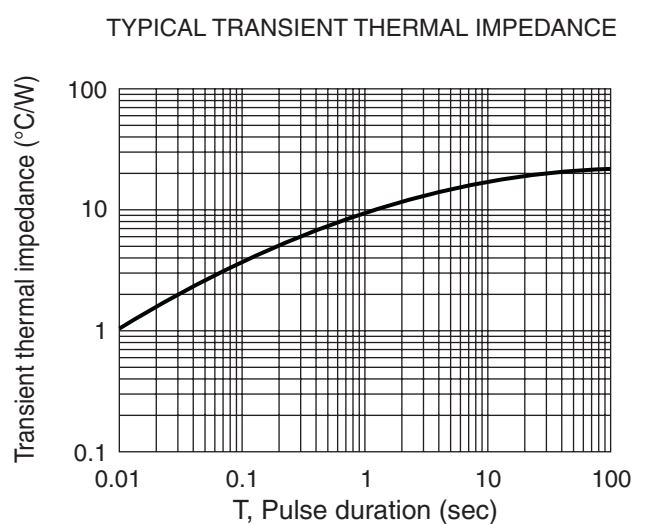
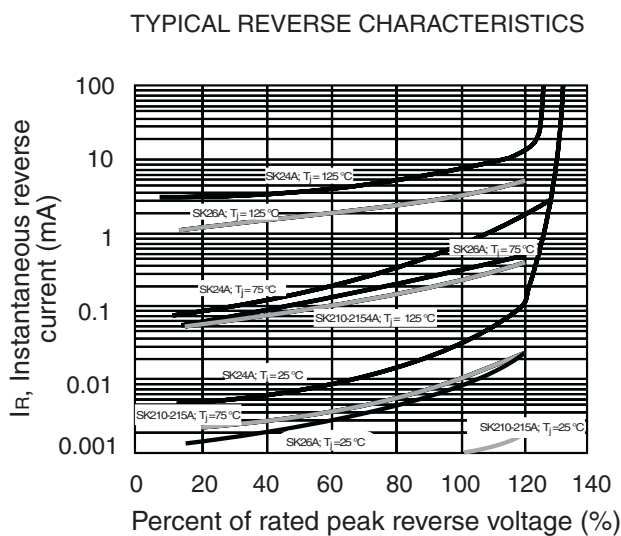
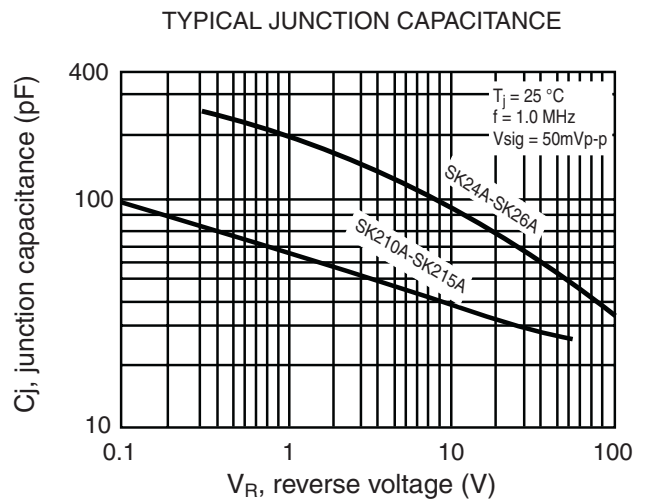
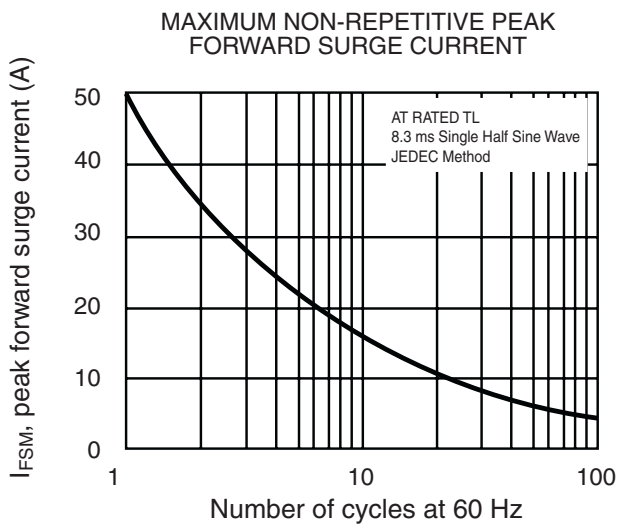
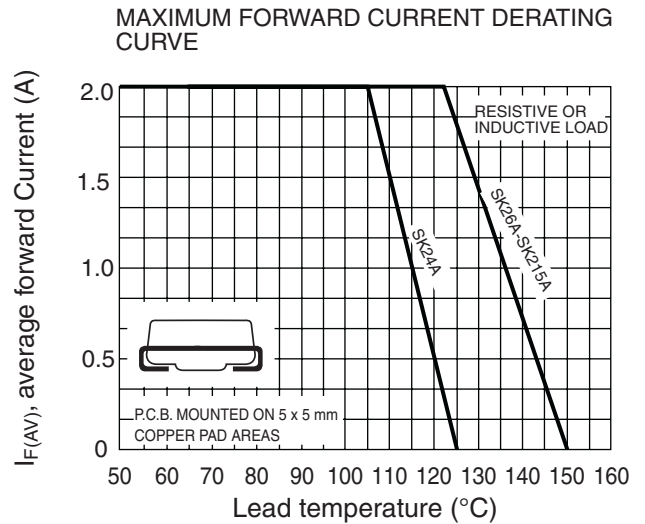
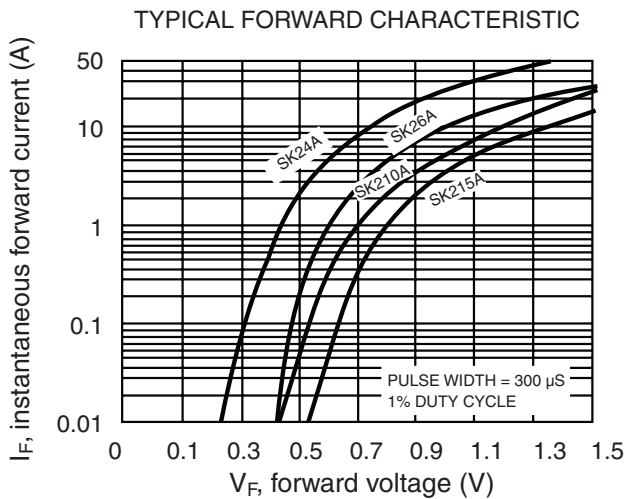
| PREFERRED P/N  | PACKAGE CODE | DELIVERY MODE              | BASE QUANTITY | UNIT WEIGHT (g) |
|----------------|--------------|----------------------------|---------------|-----------------|
| SK26A TRTB     | TRTB         | 13" diameter tape and reel | 7,500         | 0.060           |
| SK26A TRTS     | TRTS         | 7" diameter tape and reel  | 1,800         | 0.060           |
| SK26A HE3 TRTB | TRTB         | 13" diameter tape and reel | 7,500         | 0.060           |

**Package Outline Dimensions: (mm) DO-214AC / SMA**



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**Ratings and Characteristics (Ta 25 °C unless otherwise noted)**



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### Disclaimer

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