

### 3.0 Amp. Surface Mount Schottky Barrier Rectifier

<p><b>DO-214AA (SMB)</b></p> 	<p><b>Voltage</b> 20 V to 200 V</p>	<p><b>Current</b> 3.0 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>• AEC-Q101 qualified</li> <li>• Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC</li> <li>• Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C</li> </ul>		   <b>RoHS COMPLIANT</b>
	<p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• <b>Case:</b> DO-214AA (SMB). 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</li> <li>• <b>HE3 suffix</b> for high reliability grade, 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

		SK 32B	SK 34B	SK 36B	SK 310B	SK 315B	SK 320B
<b>Marking Code</b>		<b>IF</b>	<b>IG</b>	<b>IH</b>	<b>IJ</b>	<b>IK</b>	<b>JQ</b>
$V_{RRM}$	Maximum Recurrent Peak Reverse Voltage (V)	20	40	60	100	150	200
$V_{RMS}$	Maximum RMS Voltage (V)	14	28	42	70	105	140
$V_{DC}$	Maximum DC Blocking Voltage (V)	20	40	60	100	150	200
$I_{F(AV)}$	Forward Current at $T_L$ (See graphic)	3.0 A					
$I_{FSM}$	8.3 ms. Peak Forward Surge Current (Jedec Method)	70 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 Tamb = 25 °C

$V_F$	Maximum Instantaneous Forward Voltage @ 3.0 A (Note 1)	0.5 V	0.75 V	0.85 V	0.95 V
$I_R$	Maximum D.C. Reverse Current @ $T_j = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_j = 125^\circ\text{C}$ (Note 3)	0.5 mA			0.1 mA
		10 mA	5.0 mA	2.0 mA	
$R_{thj-c}$ $R_{thj-a}$	Typical Thermal Resistance (Note 2)	17 °C/W 75 °C/W			

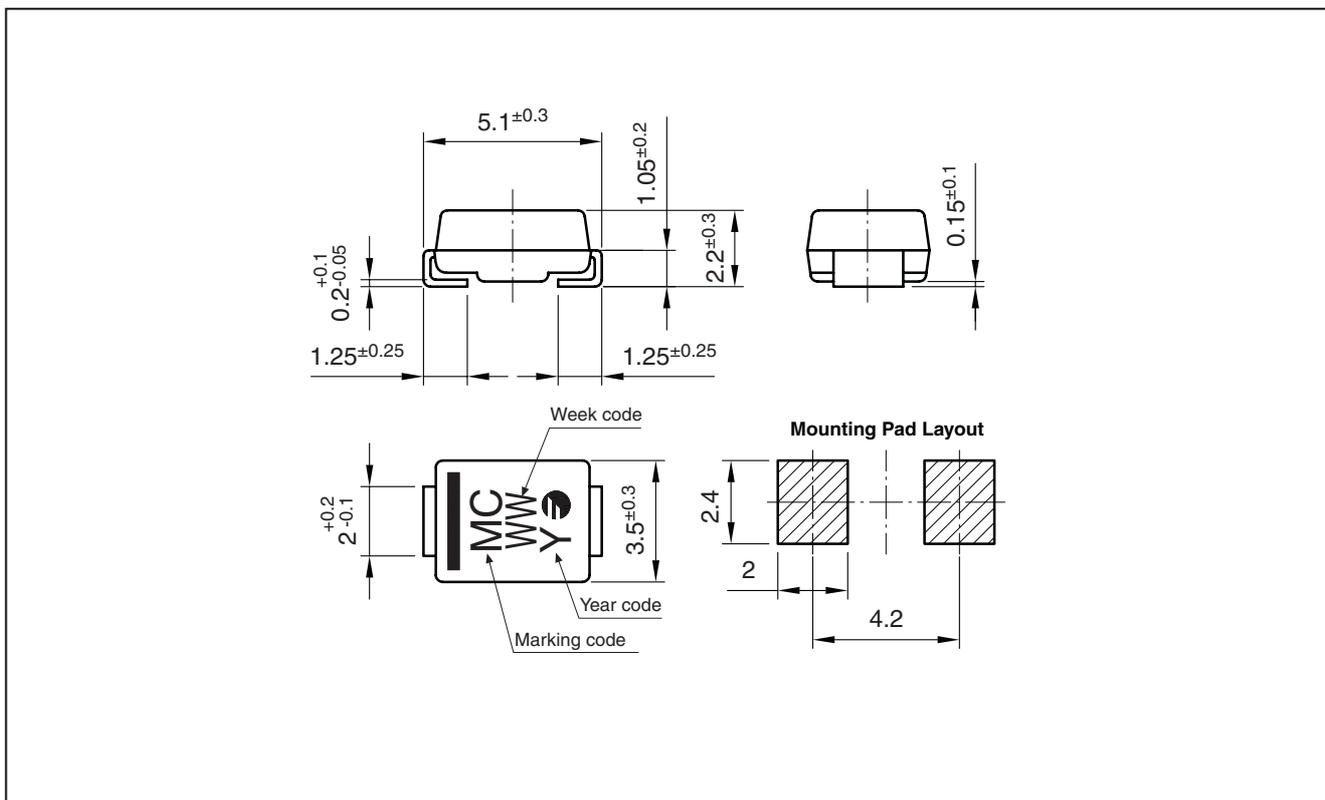
Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle  
 2. Thermal Resistance from Junction to Case per diode  
 3. Pulse test: Pulse width ≤ 40ms

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**Ordering information**

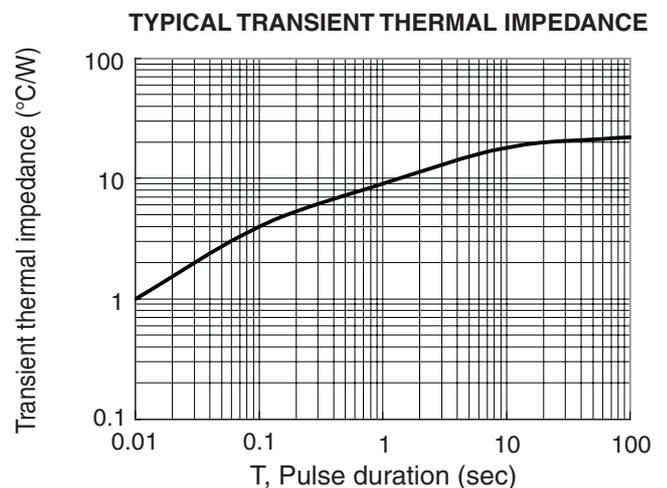
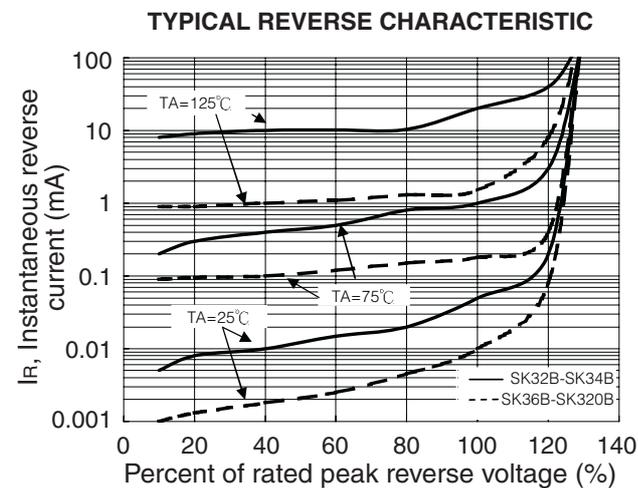
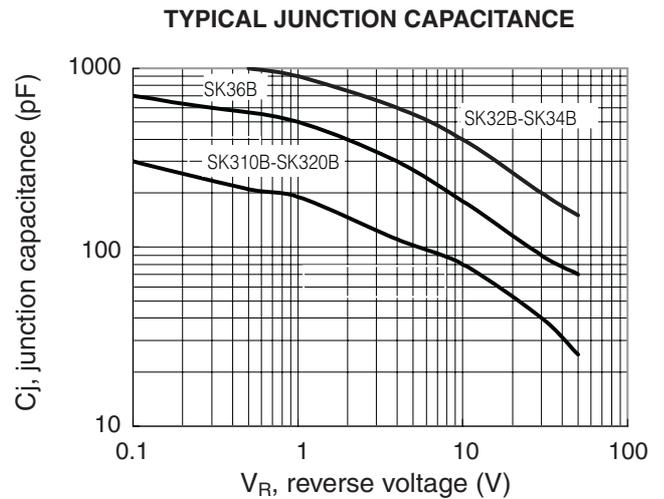
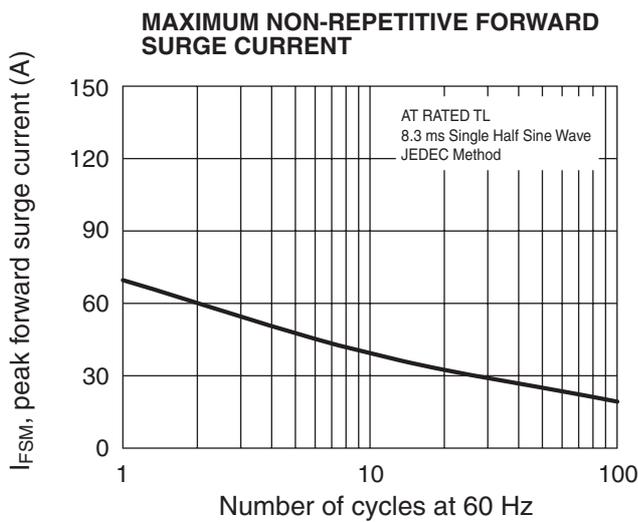
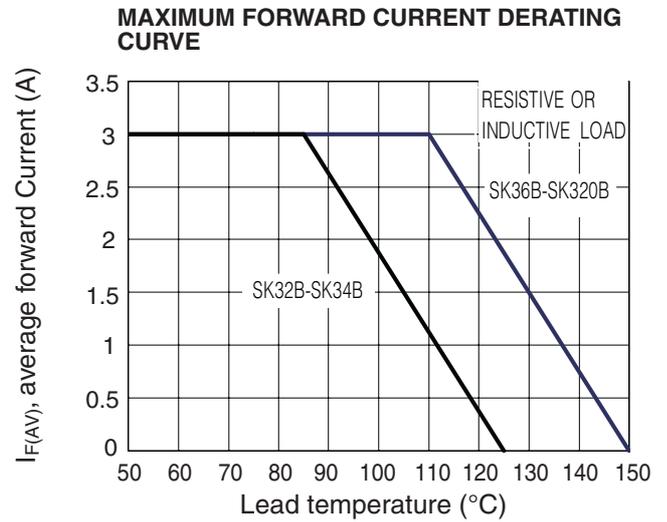
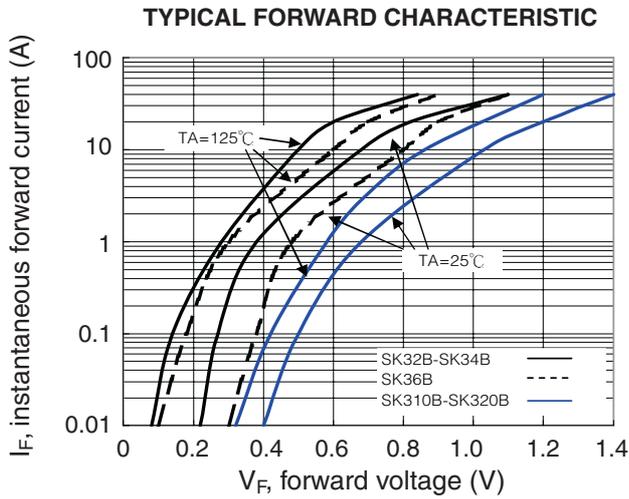
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
SK34B TRTB	TRTB	13" diameter tape and reel	3,000	0.0823
SK34B HE3 TRTB	TRTB	13" diameter tape and reel	3,000	0.0823

**Package Outline Dimensions: (mm) DO-214AA (SMB)**



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



**3.0 Amp. Surface Mount Schottky Barrier Rectifier****Revision History**

<b>Date</b>	<b>Revision</b>	<b>Description of Changes</b>
15-Nov-2011	0	Original Data Sheet
29-Jan-2014	1	Included HE3

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