





3.0 Amp. Surface Mount Schottky Barrier Rectifier

<p>DO-214AA (SMB)</p> 	<p>Voltage 20 V to 200 V</p>	<p>Current 3.0 A</p>	
	<p>FEATURES</p> <ul style="list-style-type: none"> • Low profile package • Ideal for automated placement • Low power losses, high efficiency • High surge current capability • Guarding for overvoltage protection • Low forward voltage drop • Solder dip 260°C, 10s • AEC-Q101 qualified • Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC • Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C 		   RoHS COMPLIANT
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: DO-214AA (SMB). Epoxy meets UL 94V-0 flammability rating. • Polarity: Color band denotes cathode end. • Terminals: 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, meets JESD 201 class 2 whisker test. 		
	<p>TYPICAL APPLICATIONS</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
Marking Code		IF	IG	IH	IJ	IK	JQ
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 $T_{amb} = 25\text{ °C}$

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 @ $T_j = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_j = 125\text{ °C}$ (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			

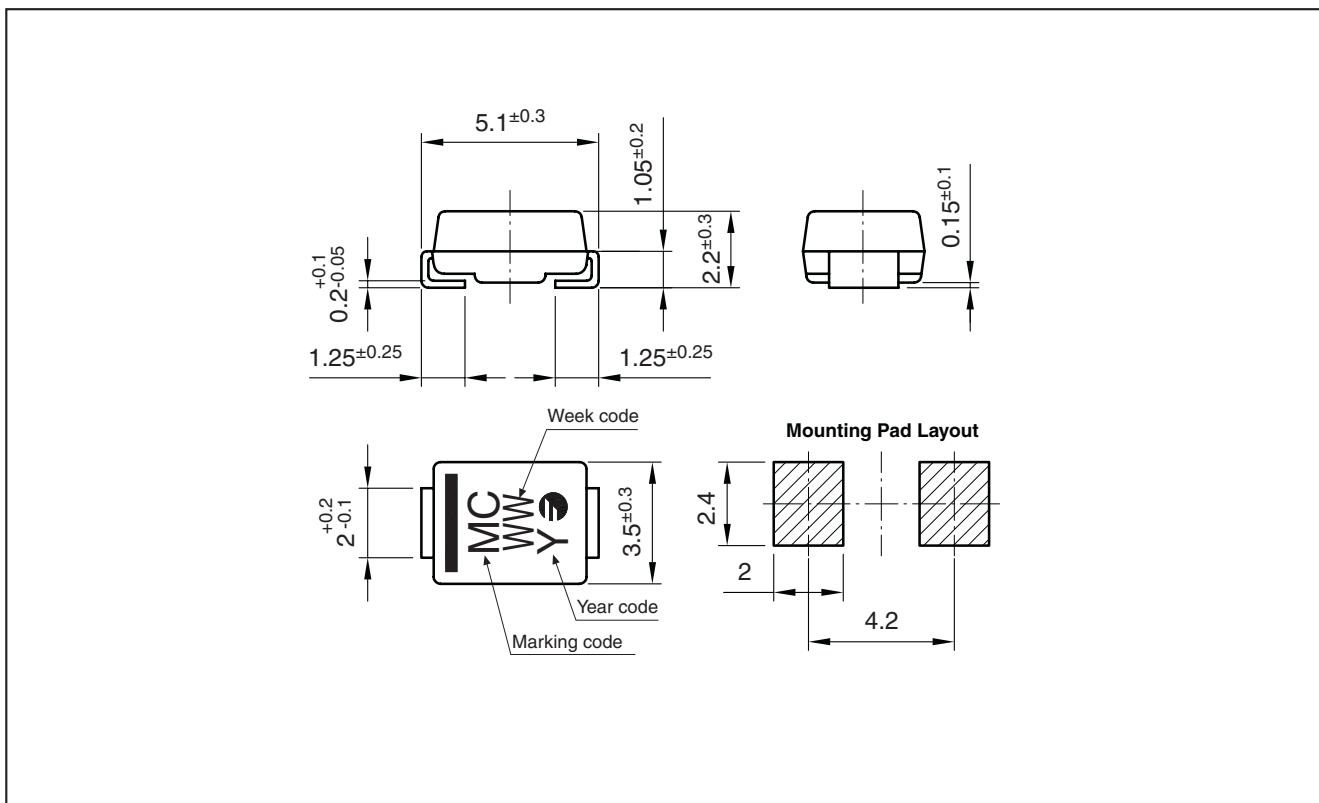
Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle
 2. Thermal Resistance from Junction to Case per diode
 3. Pulse test: Pulse width ≤ 40ms

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Ordering information

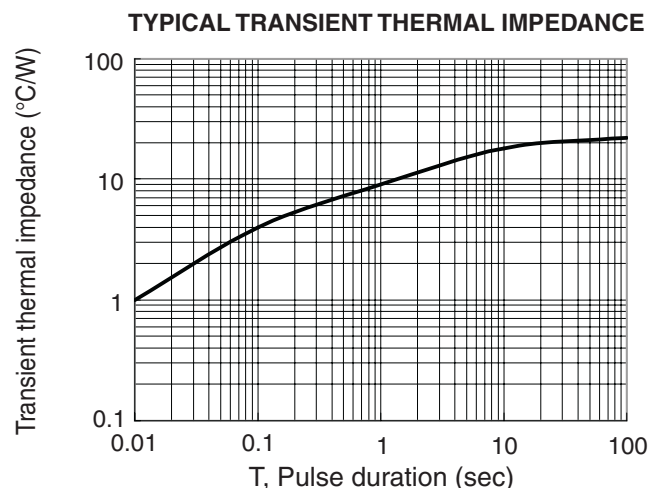
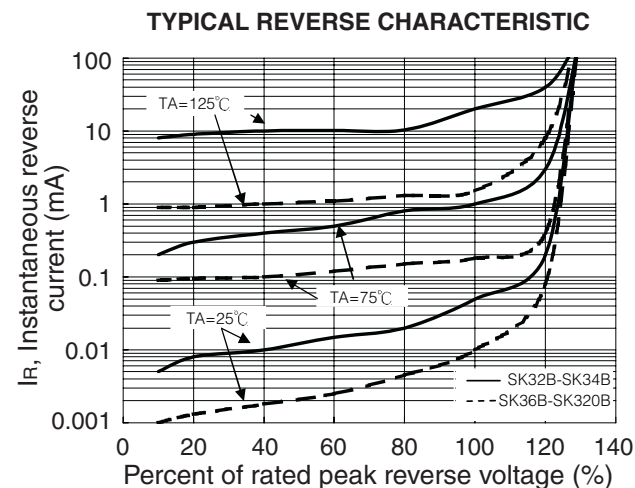
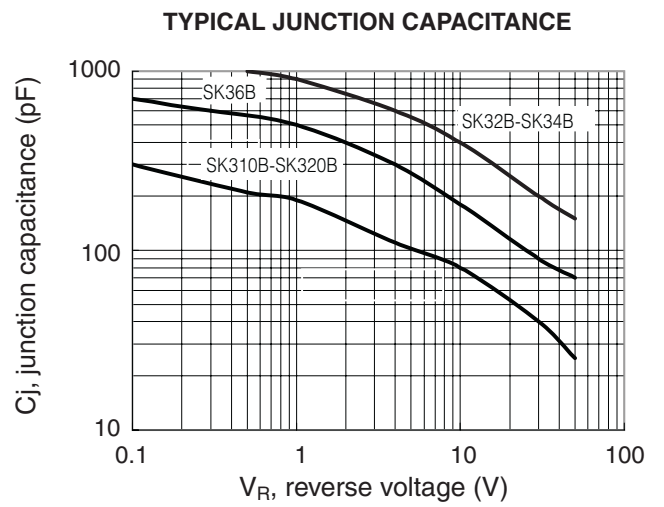
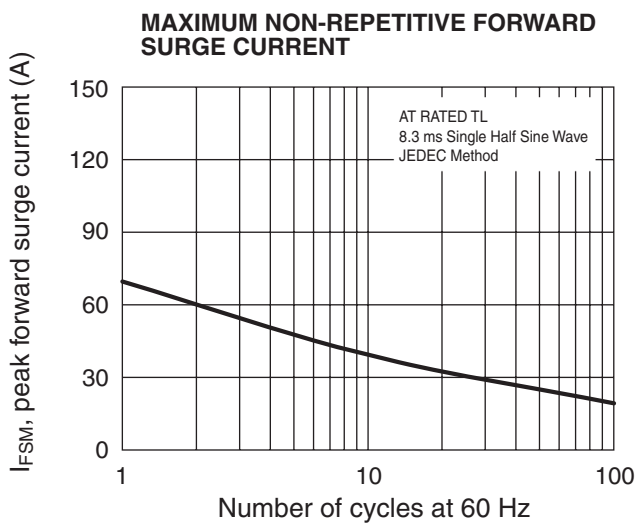
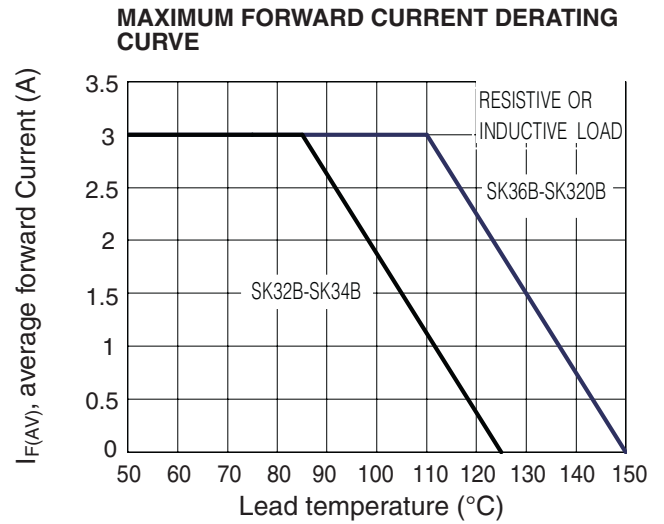
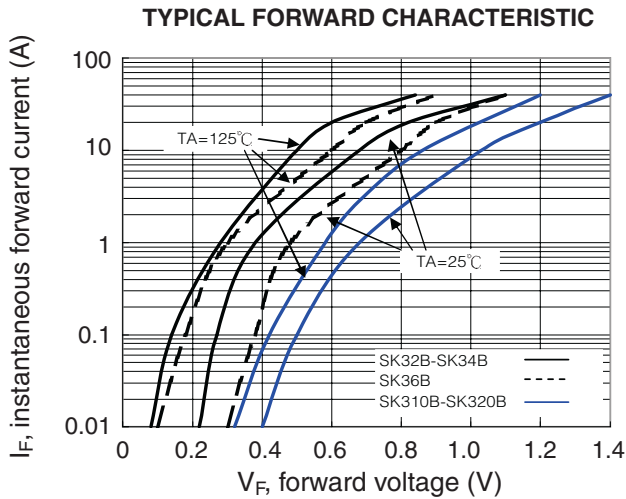
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
SK34B TRTB	TRTB	13" diameter tape and reel	3,000	0.0823
SK34B HE3 TRTB	TRTB	13" diameter tape and reel	3,000	0.0823

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



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



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

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