




1.0 Amp. Surface Mount Schottky Barrier Rectifiers

<p>DO-214AA (SMB)</p> 	<p>Voltage 20 V to 150 V</p> <p>Current 1.0 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 	
<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 12B	SK 13B	SK 14B	SK 15B	SK 16B	SK 19B	SK 110B	SK 115B	
Marking code		I1	I2	I3	I4	I5	I6	I7	I8	
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	20	30	40	50	60	90	100	150	
V_{RMS}	Maximum RMS Voltage (V)	14	21	28	35	42	63	70	105	
V_{DC}	Maximum DC Blocking Voltage (V)	20	30	40	50	60	90	100	150	
$I_{F(AV)}$	Maximum Average Forward Rectified Current at T_L (See graphic)	1.0 A								
I_{FSM}	8.3 ms. Peak Forward Surge Current (Jedec Method)	30 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 @ 1.0 A	0.5 V	0.75 V	0.85 V	0.95 V
I_R	Maximum DC Reverse Current (Note 1) $T_A = 25\text{ °C}$	0.5 mA			0.1 mA
	at Rated DC Blocking Voltage $T_A = 100\text{ °C}$	10 mA	5.0 mA	--	
	$T_A = 125\text{ °C}$	--			2.0 mA
C_j	Typical Junction Capacitance (Note 2)	110 pF			
R_{thj-l}	Typical Thermal Resistance (Note 3)	25 °C/W			

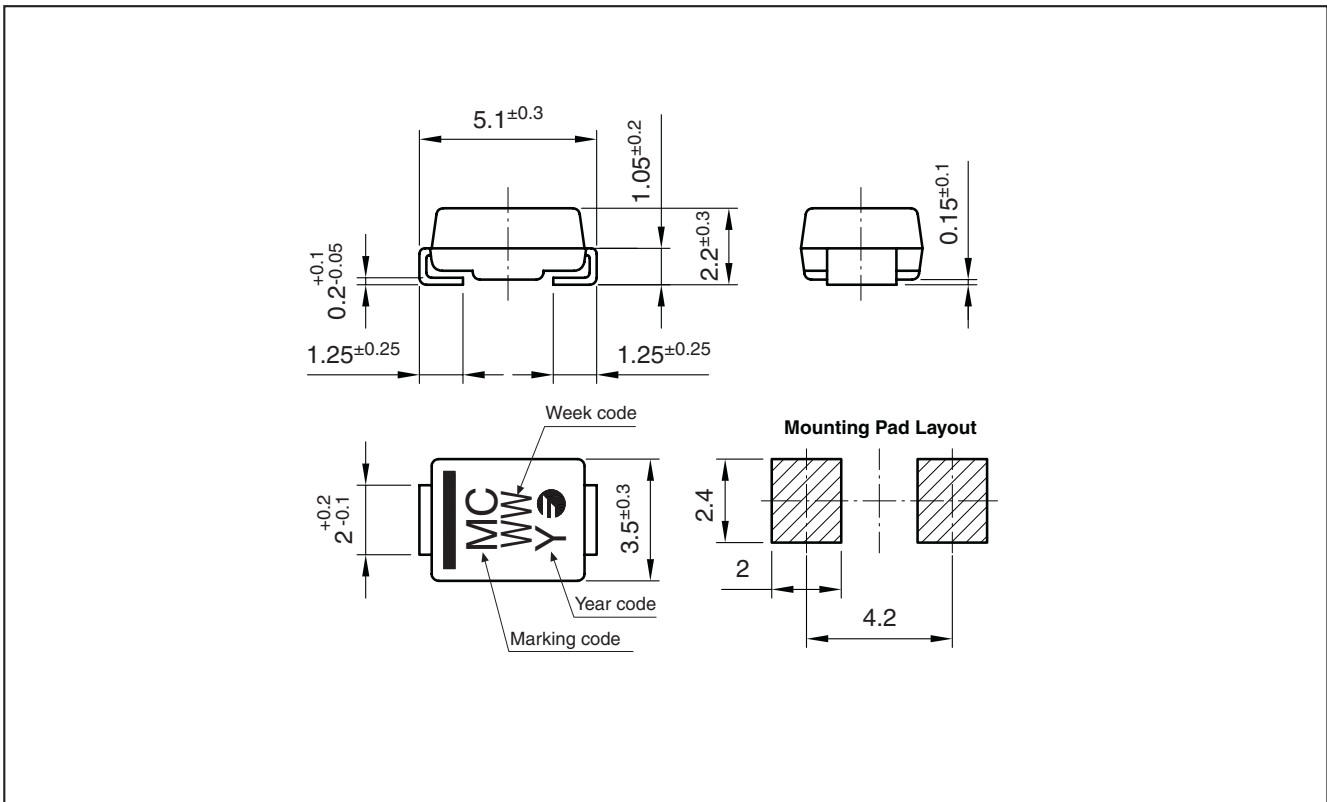
NOTES: 1. Pulse Test With PW = 300 µsec, 1% Duty Cycle
 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.
 3. Measured on P.C. Board with 10mm x10mm Copper Pad Areas

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Ordering information

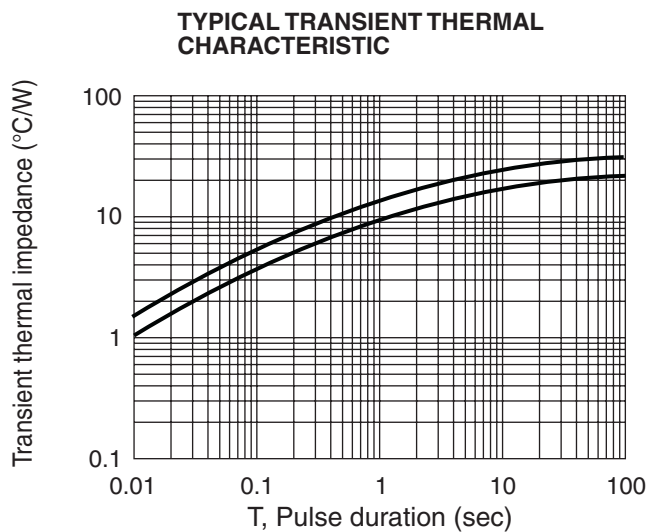
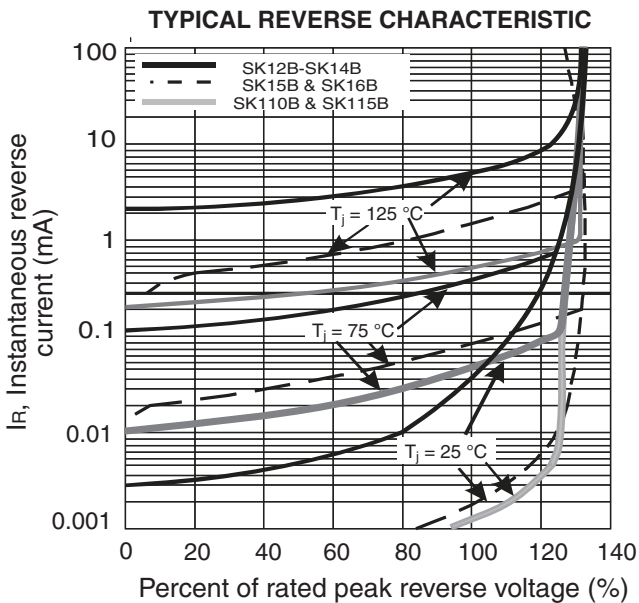
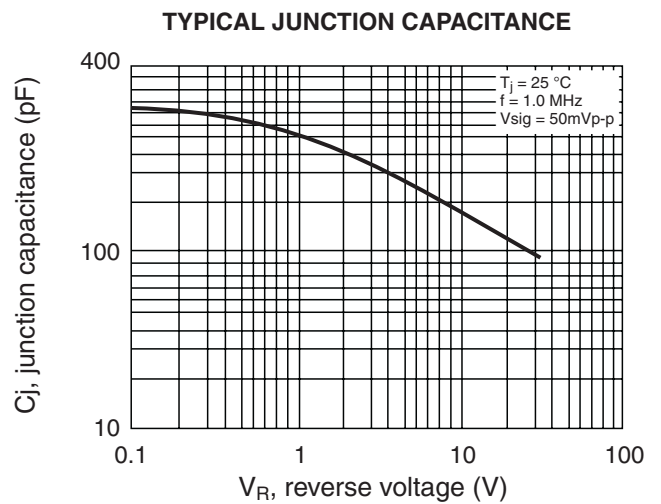
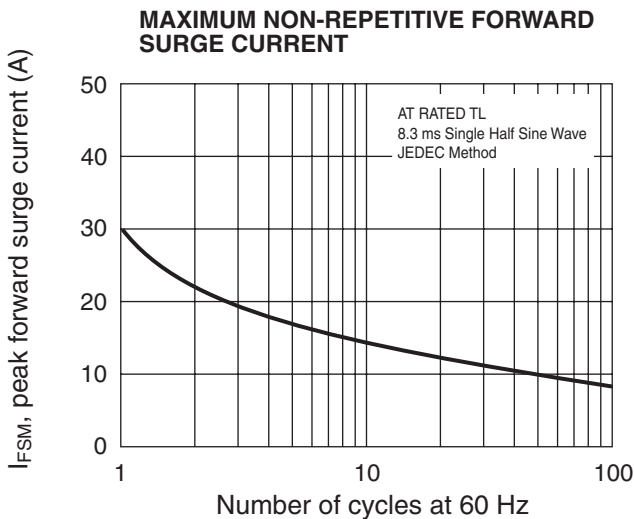
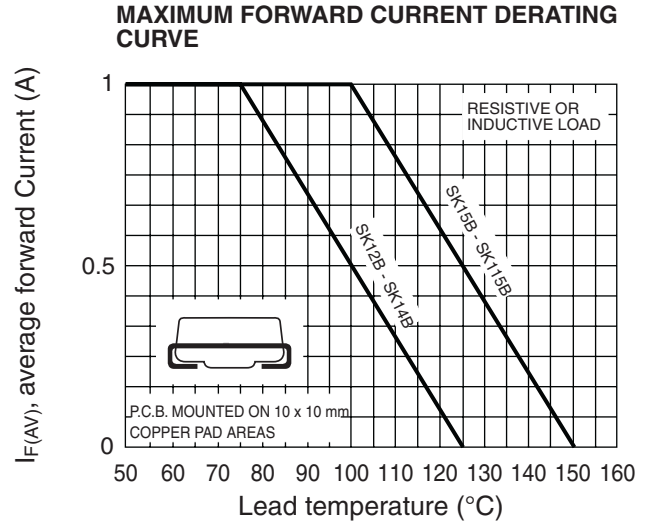
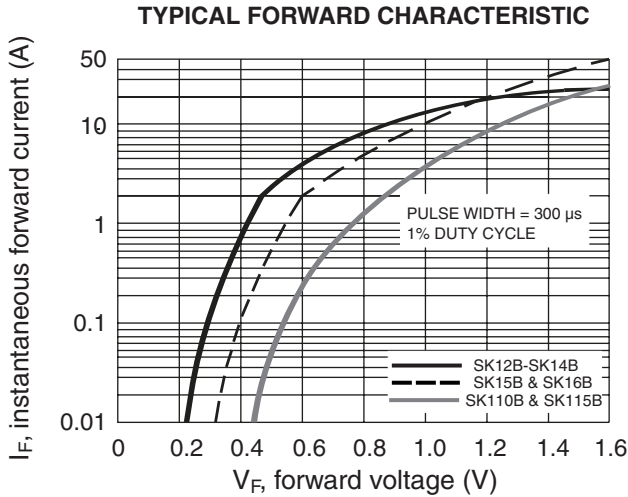
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
SK110B TRTB	TRTB	13" diameter tape and reel	3,000	0.0823
SK110B TRTS	TRTS	7" diameter tape and reel	850	0.0823

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



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



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Revision History

Date	Revision	Description of Changes
11-Mar-2011	0	Original Data Sheet
28-Oct-2016	1	Format update

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