











2.0 Amp. Surface Mount Schottky Barrier Rectifier

<p>DO-214AA (SMB)</p> 	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Voltage 20 V to 150 V</td> <td style="text-align: center;">Current 2.0 A</td> </tr> <tr> <td colspan="2"> <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 </td> </tr> <tr> <td colspan="2" style="text-align: right; vertical-align: top;">    RoHS COMPLIANT </td> </tr> <tr> <td colspan="2"> <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. </td> </tr> <tr> <td colspan="2"> <p>TYPICAL APPLICATIONS</p> <p>Used in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications.</p> </td> </tr> </table>	Voltage 20 V to 150 V	Current 2.0 A	<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>	
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Maximum Ratings and Electrical Characteristics at 25 °C

		FSS 22	FSS 23	FSS 24	FSS 25	FSS 26	FSS 29	FSS 210	FSS 215	
Marking Code		B1	B2	B3	B4	B5	BA	BB	BC	
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	
$I_{F(AV)}$	Forward Current at T_c	2.0 A								
I_{FSM}	8.3 ms. Peak Forward Surge Current (Jedec Method)	50 A								
T_j	Operating Temperature Range	-65°C to +125°C			-65°C to +150°C					
T_{stg}	Storage Temperature Range	-65°C to +150°C								

Electrical Characteristics at Tamb = 25 °C

V_F	Maximum Instantaneous Forward Voltage (Note 1) $I_F = 2.0 A$ @ 25 °C @ 100 °C	0.5 V	0.70 V	0.85 V	0.95 V
		0.4 V	0.65 V	0.70 V	0.80 V
I_R	Maximum DC Reverse Current $T_j = 25 °C$ at Rated DC Blocking Voltage $T_j = 100°C$ (Note 3)	0.4 mA		0.1 mA	
		10 mA		5.0 mA	
C_j	Typical Junction Capacitance (Note 4)	200 pF	130 pF	48 pF	
$R_{th(j-c)}$ $R_{th(j-a)}$	Typical Thermal Resistance (Note 2)	17 °C/W 75 °C/W			

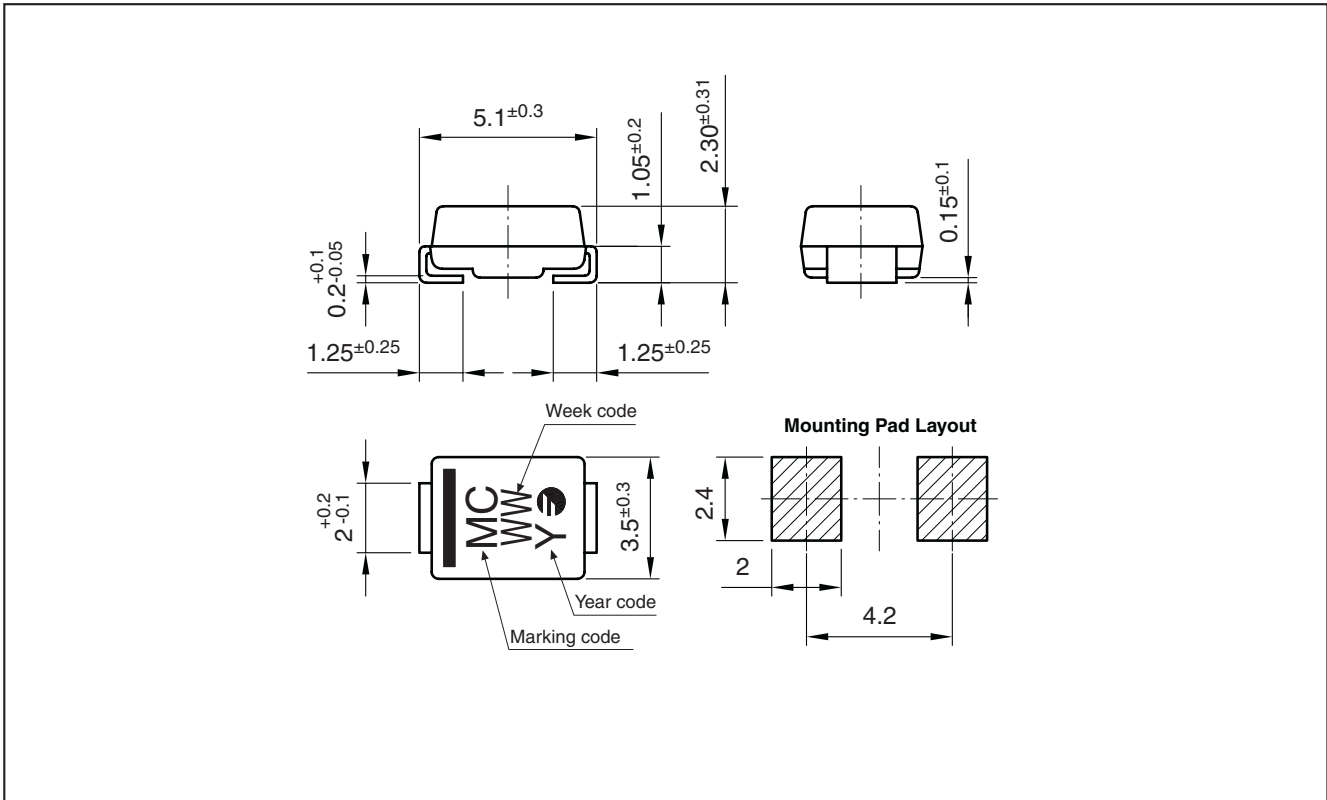
- Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle
 2. Thermal Resistance from Junction to Case per diode
 3. Pulse test: Pulse width ≤ 40ms
 4. Measured at 1.0MHz and Applies Reverse Voltage of 4.0V. D.C.

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Ordering information

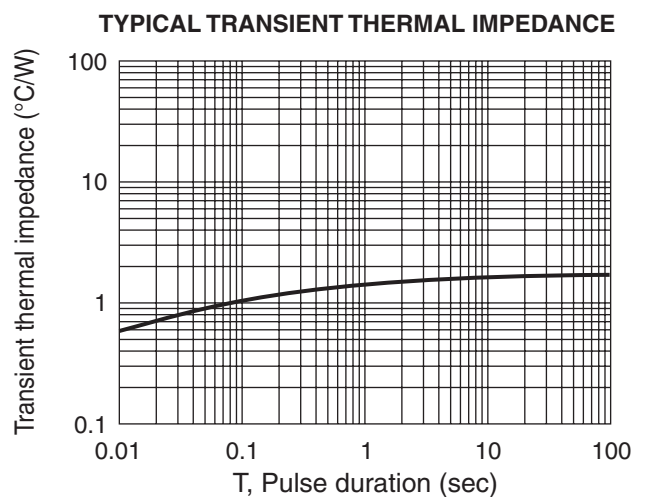
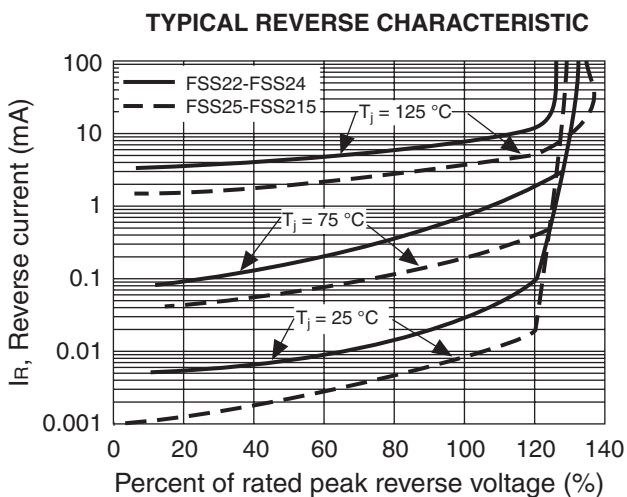
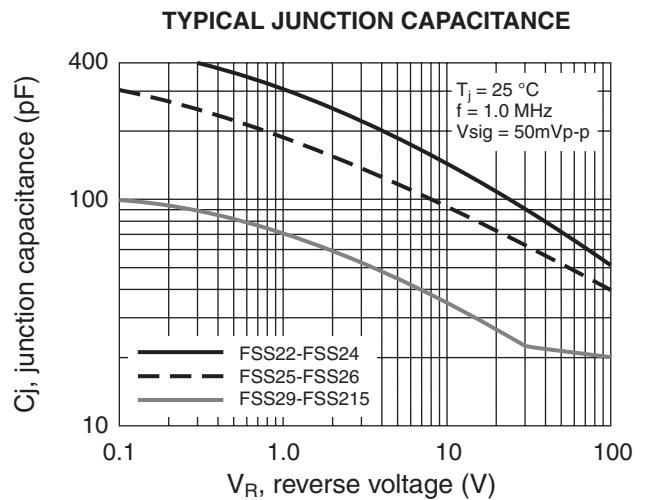
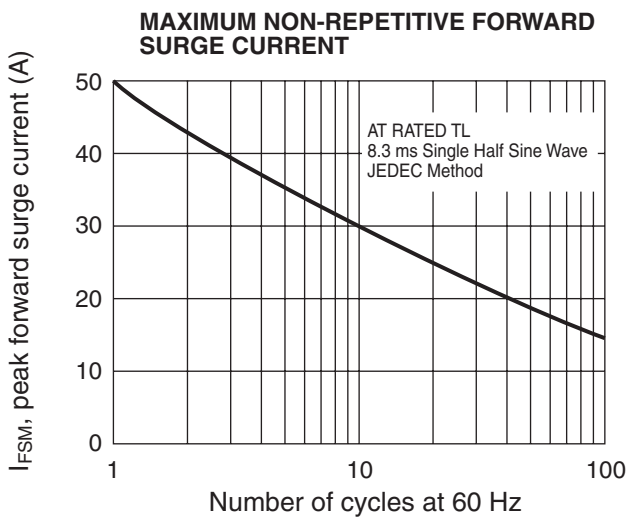
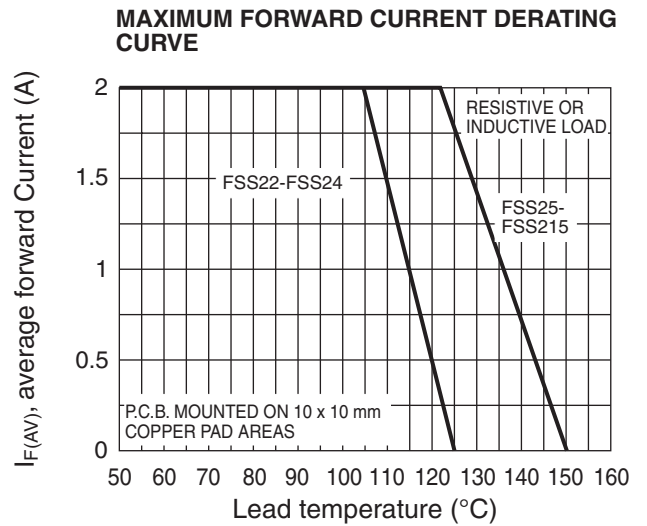
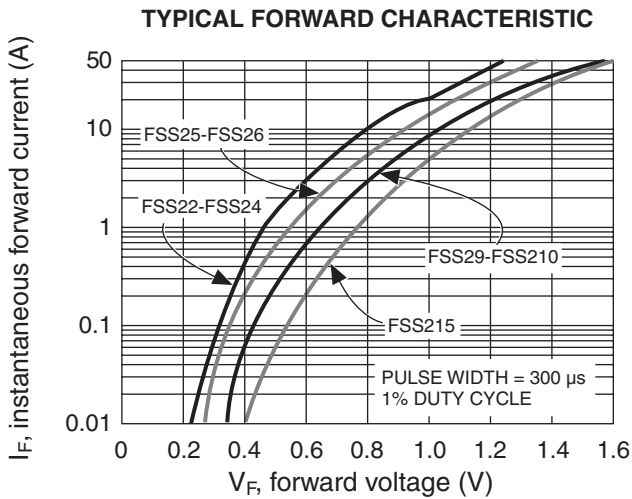
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FSS22 TRTB	TRTB	13" diameter tape and reel	3,000	0.0823
FSS22 HE3 TRTB	TRTB	13" diameter tape and reel	3,000	0.0823

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



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



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