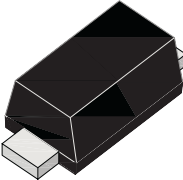





2.0 Amp. Surface Mount Schottky Barrier Rectifier

<p>SOD123W</p> 	<p>Voltage 20 V to 200V</p>	<p>Current 2.0 A</p>	
	<p>FEATURES</p> <ul style="list-style-type: none"> • Low profile package • Ideal for automated placement • Guardring for overvoltage protection • Low power losses, high efficiency • Low forward voltage drop • High forward surge current capability • 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 • Low leakage current 		   RoHS COMPLIANT
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: SOD123W. 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

		FSS22W	FSS23W	FSS24W	FSS26W	FSS210W	FSS215W	FSS220W
Marking code		2D	2E	2F	2G	2H	2I	2J
V _{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	20	30	40	60	100	150	200
V _{RMS}	Maximum RMS Voltage (V)	14	21	28	42	70	105	140
V _{DC}	Maximum DC Blocking Voltage (V)	20	30	40	60	100	150	200
I _{F(AV)}	Forward Current at T _c (See graphic)	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 I _F = 2.0 A (Note 1)	0.5 V	0.70 V	0.85 V	0.95 V
I _R	Maximum DC Reverse Current T _j = 25 °C at Rated DC Blocking Voltage T _j = 125°C (Note 3)	0.4 mA		0.1 mA	
C _j	Typical Junction Capacitance	130 pF			
R _{th(j-c)} R _{th(j-a)}	Typical Thermal Resistance (Note 2)	17 °C/W		75 °C/W	

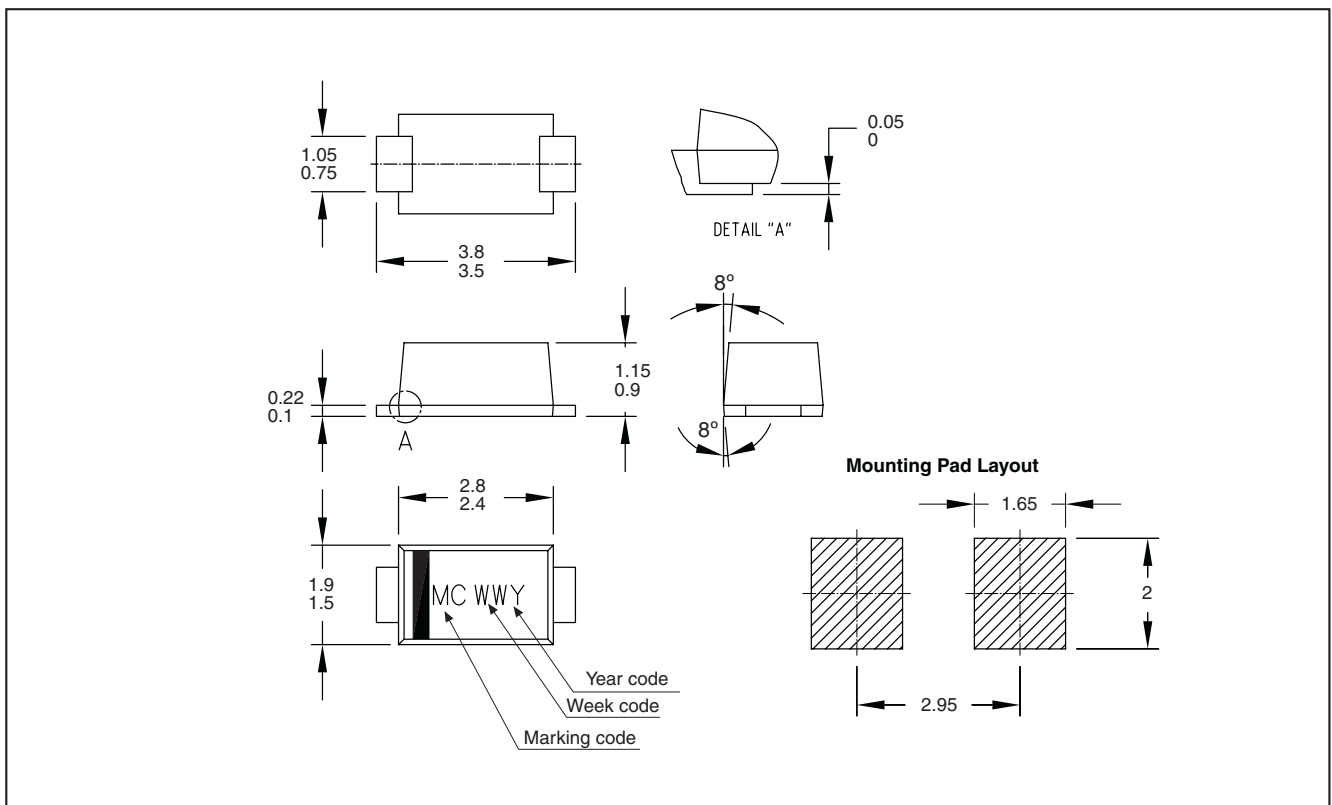
Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle
 2. Thermal Resistance from Junction to Case per diode
 3. Pulse test: Pulse width ≤ 40ms

2.0 Amp. Surface Mount Schottky Barrier Rectifier

Ordering information

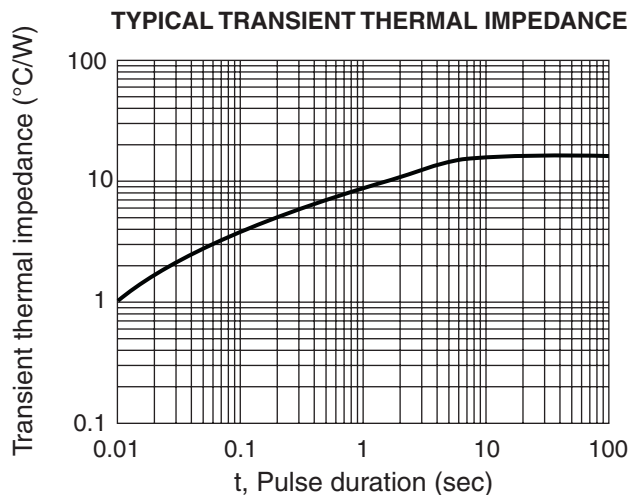
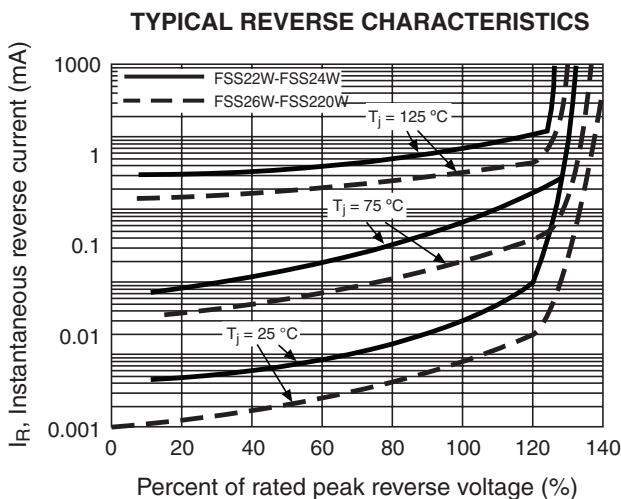
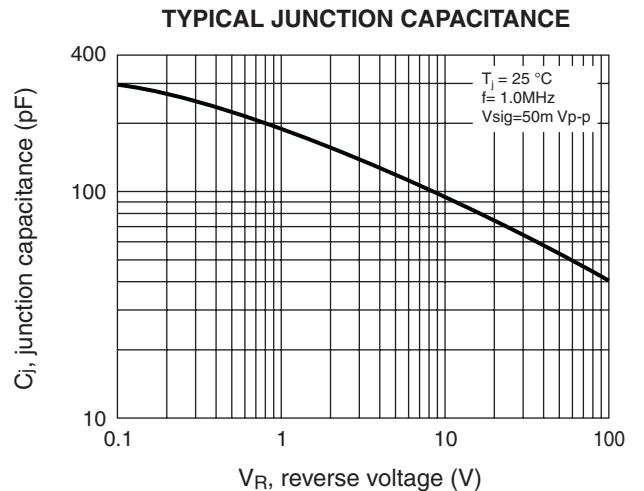
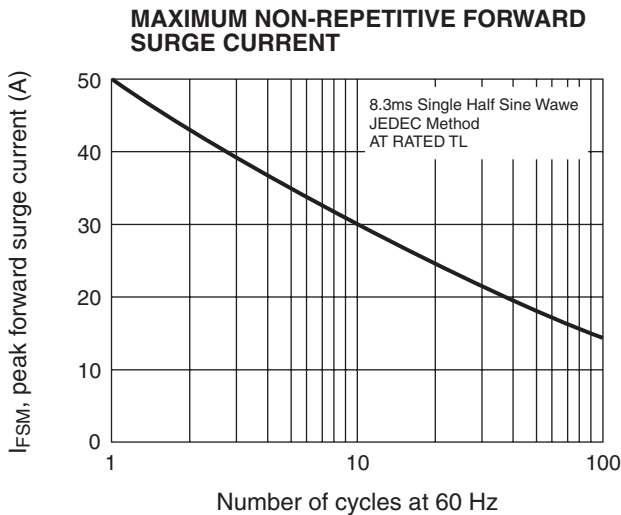
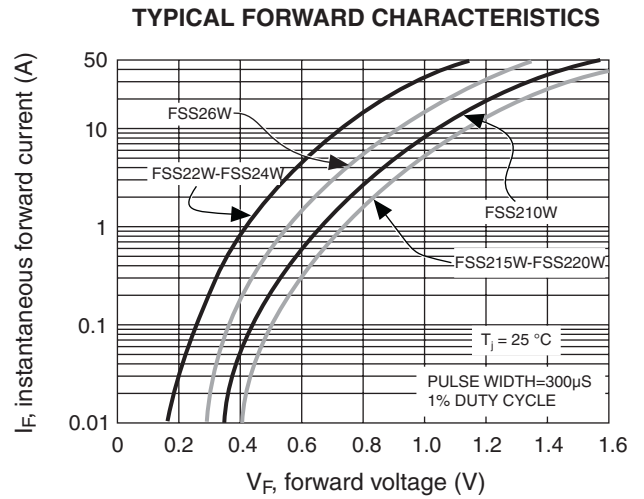
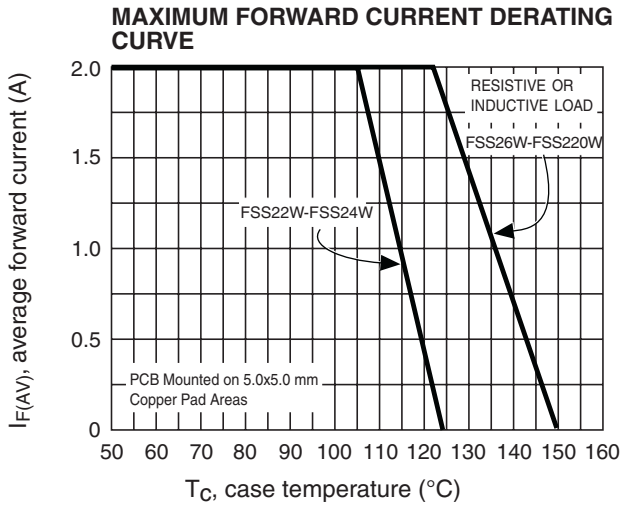
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FSS24W TRTB	TRTB	13" diameter tape and reel	10,000	0.0165
FSS24W HE3 TRTB	TRTB	13" diameter tape and reel	10,000	0.0165

Package Outline Dimensions: (mm) SOD123W



2.0 Amp. Surface Mount Schottky Barrier Rectifier

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



2.0 Amp. Surface Mount Schottky Barrier Rectifier**Disclaimer**

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