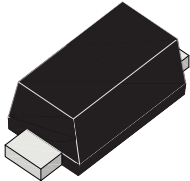


1.0 Amp. Surface Mount Glass Passivated Ultrafast Recovery Rectifier

SOD123W 	Voltage 100 to 600 V Current 1.0 A
	FEATURES • Glass passivatedTechnology • Low profile package • Ideal for automated placement • Low power losses, high efficiency • High surge current capability • Cavity-free glass-passivated junction • 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
	MECHANICAL DATA • 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.
	TYPICAL APPLICATIONS Used in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer, automotive and telecommunication.

Maximun Ratings and Electrical Characteristics at 25°C

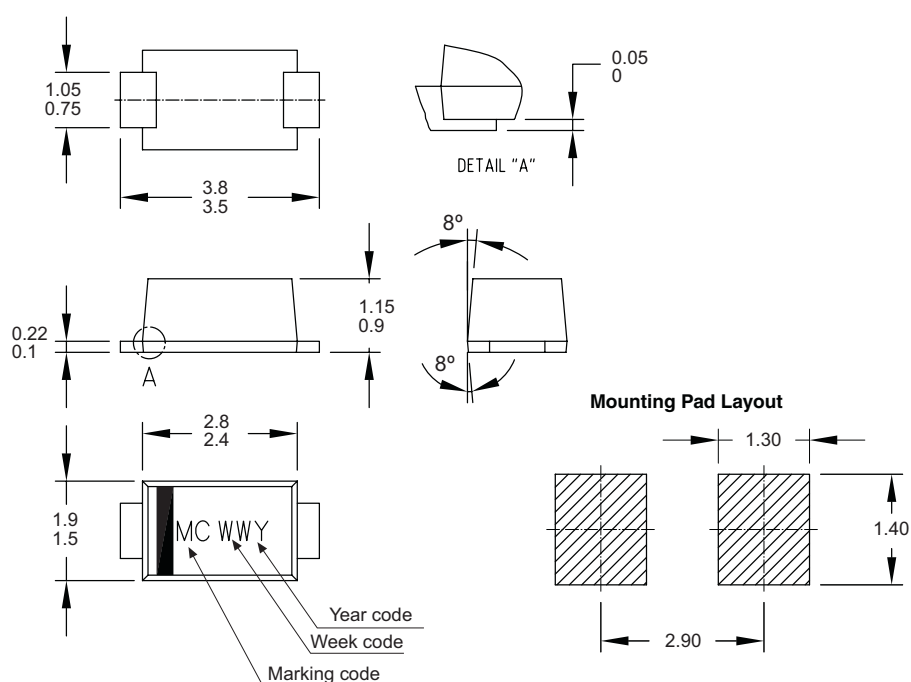
		FES1BW	FES1DW	FES1GW	FES1JW
Marking Code		N0	2L	N8	N9
V _{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	100	200	400	600
V _{RMS}	Maximum RMS Voltage (V)	70	140	280	420
V _{DC}	Maximum DC Blocking Voltage (V)	100	200	400	600
I _{F(AV)}	Forward current at T _C = 120 °C	1.0 A			
I _{FSM}	8.3 ms. peak forward surge current (Jedec Method)	30 A			
V _F	Maximum Instantaneous Forward Voltage at 1.0A	0.95 V		1.3 V	1.7 V
I _R	Maximum DC Reverse Current T _j = 25 °C at Rated DC Blocking Voltage T _j = 100 °C	5 µA 100 µA			
T _{rr}	Maximum Reverse Recovery Time (0.5/1/0.25A)	35 ns			
C _j	Typical Junction Capacitance (1MHz; -4V)	10 pF		8 pF	
R _{th (j-c)} R _{th (j-a)}	Typical Thermal Resistance (5x5 mm ² x 130 µ Copper Area)	27 °C/W 75 °C/W			
T _j - T _{stg}	Operating Junction and Storage Temperature Range	-55 to + 150 °C			

1.0 Amp. Surface Mount Glass Passivated Ultrafast Recovery Rectifier

Ordering information

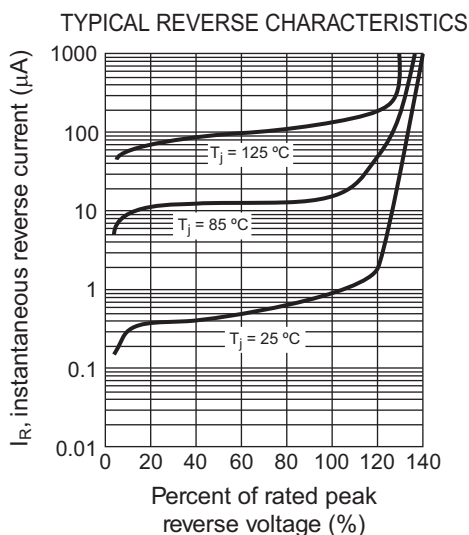
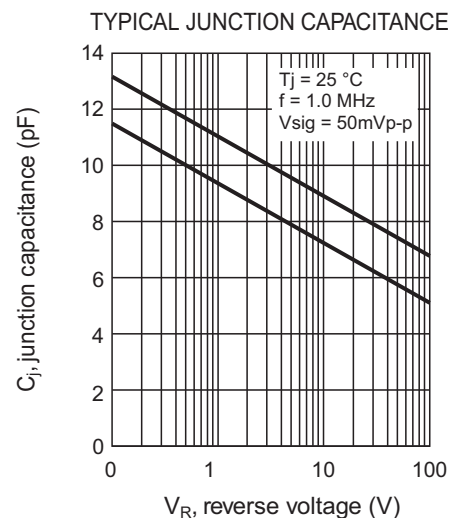
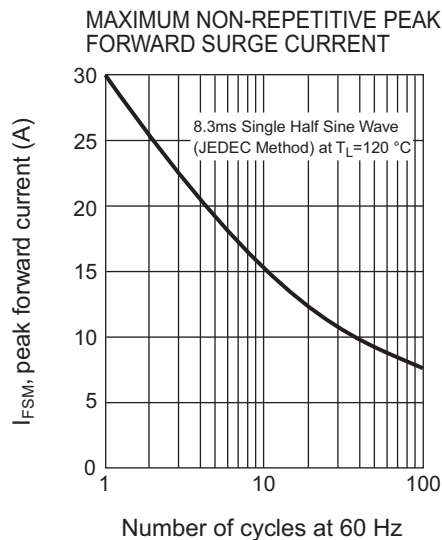
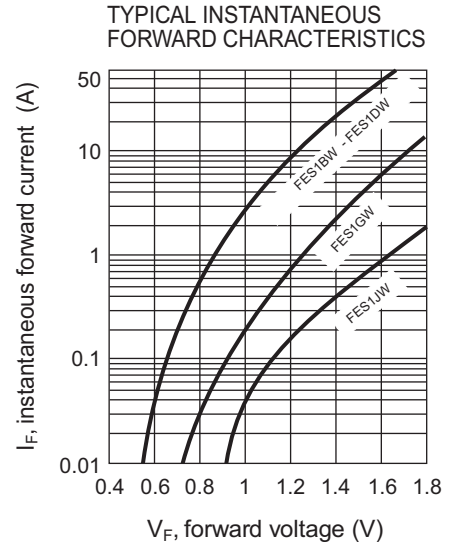
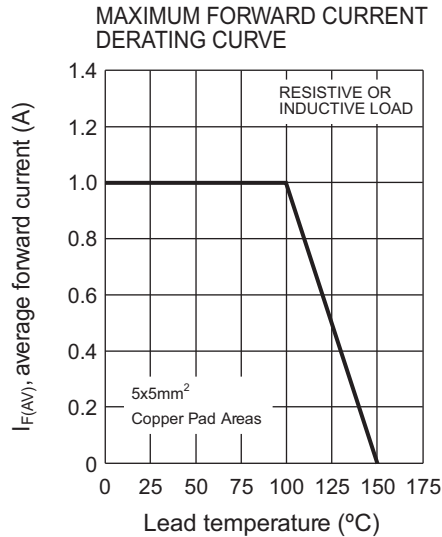
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FES1DW TRTB	TRTB	13" diameter tape and reel	10,000	0.0165
FES1DW HE3 TRTB	TRTB	13" diameter tape and reel	10,000	0.0165

Package Outline Dimensions: (mm) SOD123W

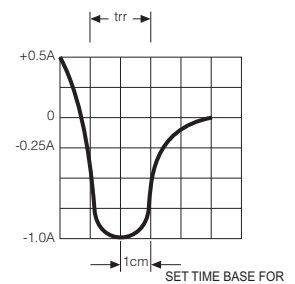
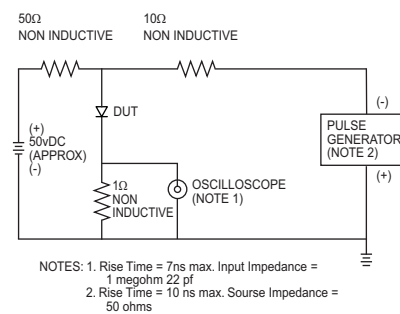


1.0 Amp. Surface Mount Glass Passivated Ultrafast Recovery Rectifier

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



REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



1.0 Amp. Surface Mount Glass Passivated Ultrafast Recovery Rectifier**Revision History**

Date	Revision	Description of Changes
Mar-2014	0	Original Data Sheet
31-Oct-2017	1	Update marking code for FES1DW

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