






3.0 Amp. Surface Mount Glass Passivated Rectifier

DO-214AB / SMC 	Voltage 50 V to 1000 V	Current 3.0 A	
			
	FEATURES <ul style="list-style-type: none"> • Low profile package • Ideal for automated placement • Low forward voltage drop • High forward surge current capability • Solder dip 260°C, 10s • Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC • Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C • Low leakage current 		   RoHS COMPLIANT
	MECHANICAL DATA <ul style="list-style-type: none"> • Case: DO-214AB (SMC). 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 (AEC Q101 qualified), meets JESD 201 class 2 whisker test. 		
TYPICAL APPLICATIONS Used in general purpose rectification of power supplies, inverters, converters and freewheeling diodes for consumer, automotive and telecommunication.			

Maximun Ratings and Electrical Characteristics at 25°C

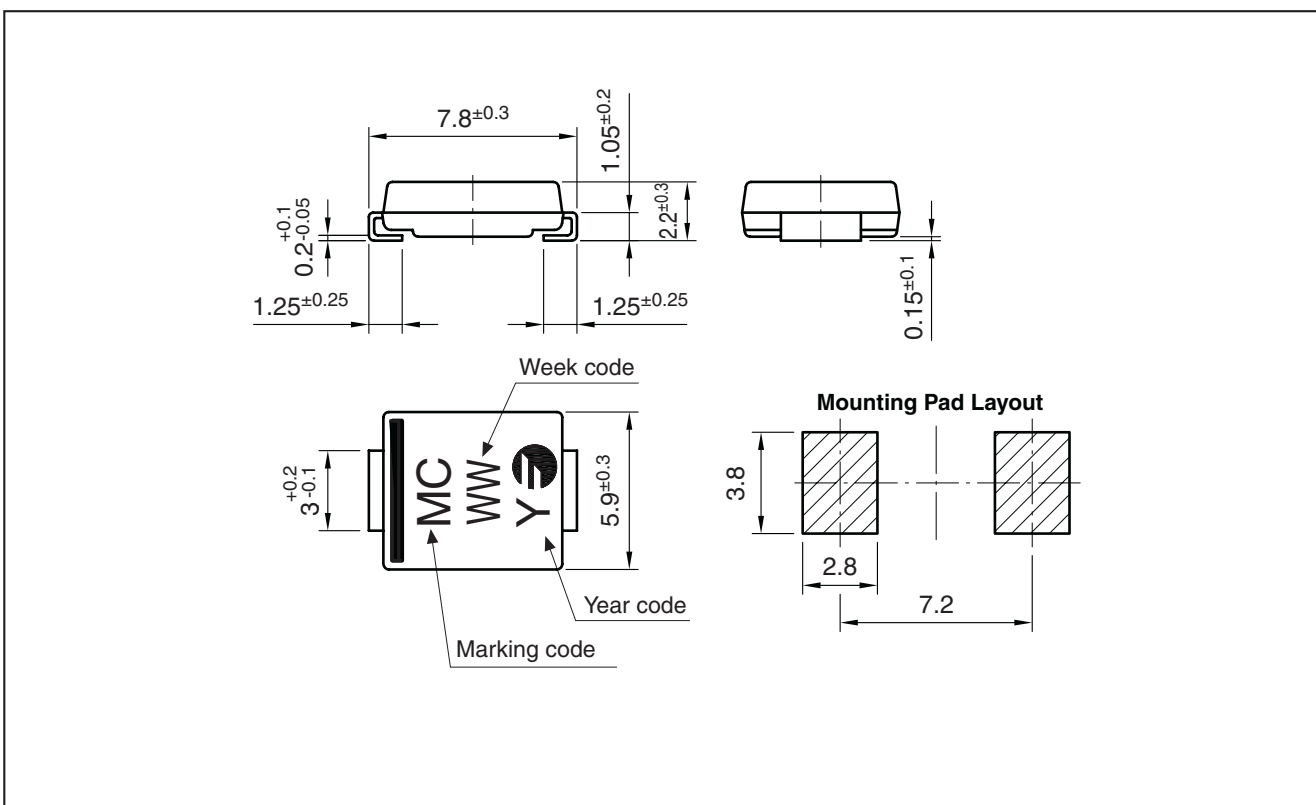
		FS3A	FS3B	FS3D	FS3G	FS3J	FS3K	FS3M
Marking Code		T1	T2	T3	T4	T5	T6	T7
V _{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	50	100	200	400	600	800	1000
V _{RMS}	Maximum RMS Voltage (V)	35	70	140	280	420	560	700
V _{DC}	Maximum DC Blocking Voltage (V)	50	100	200	400	600	800	1000
I _{F(AV)}	Forward current at T _C = 75 °C	3.0 A						
I _{FSM}	8.3 ms. peak forward surge current (Jedec Method)	100 A						
V _F	Maximum Instantaneous Forward Voltage at 3.0A	1.15 V						
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	T _c = 25 °C		T _c = 125 °C		10 µA 250 µA		
C _j	Typical Junction Capacitance (1MHz; -4V)	60 pF						
R _{th(j-l)}	Typical Thermal Resistance	13 °C/W						
R _{th(j-a)}	(5x5 mm ² x 130 µ Copper Area)	47 °C/W						
T _j - T _{stg}	Operating Junction and Storage Temperature Range	-55 to + 150 °C						

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Ordering information

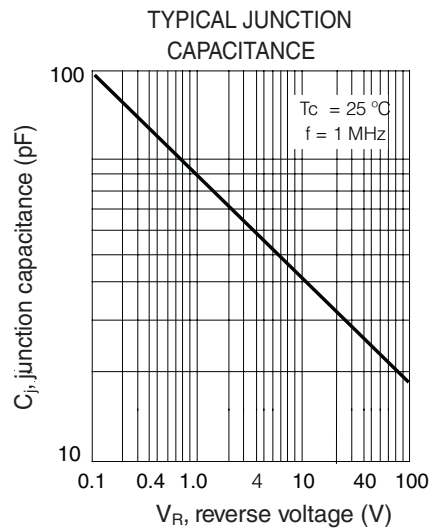
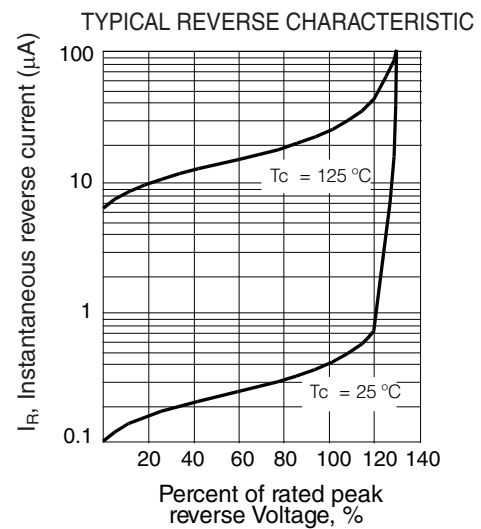
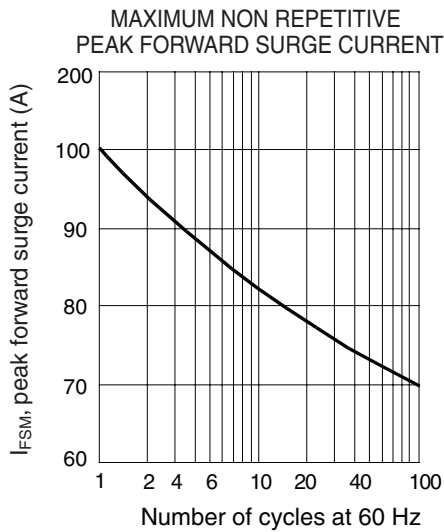
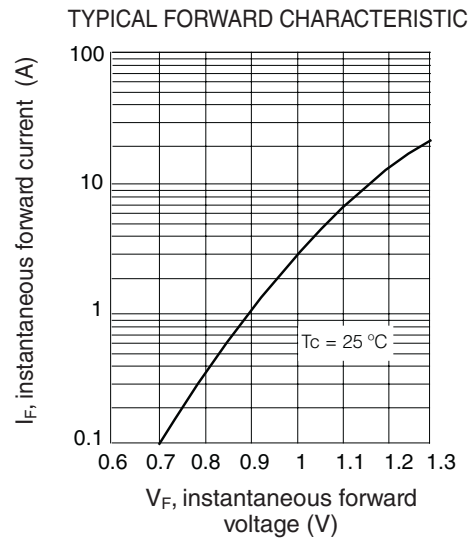
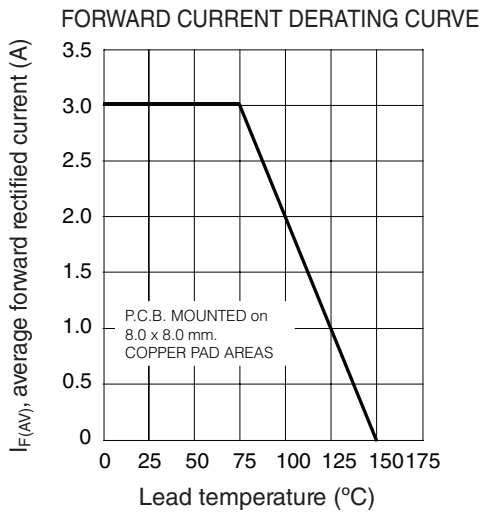
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FS3J TRTB	TRTB	13" diameter tape and reel	3,500	0.201
FS3J HE3 TRTB	TRTB	13" diameter tape and reel	3,500	0.201

Package Outline Dimensions: (mm) DO-214AB / SMC



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



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Disclaimer

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