






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 • 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
	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, 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.			

Maximum Ratings and Electrical Characteristics at 25°C

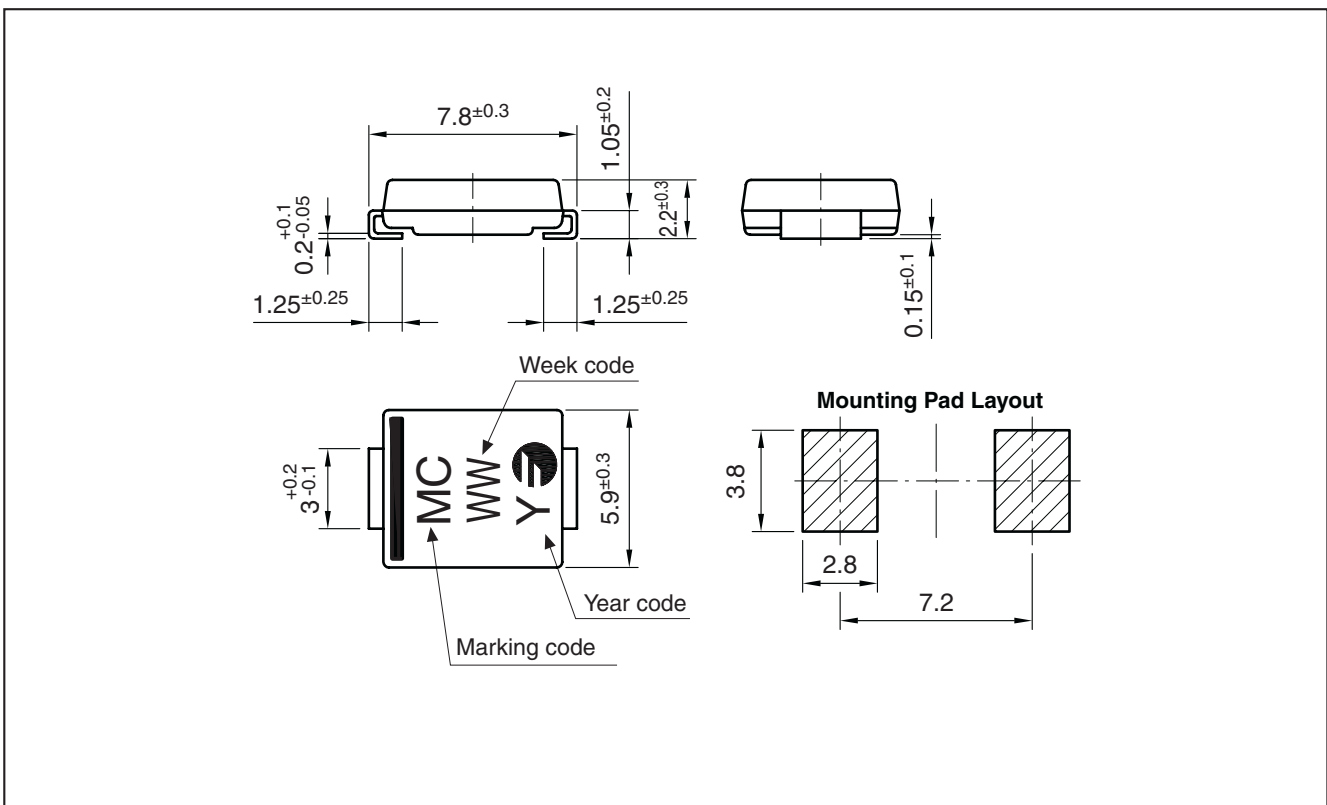
		FS3A	FS3B	FS3D	FS3G	FS3J	FS3K	FS3M
Marking Code		T1	T2	T3	T4	T5	T6	T7
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	50	100	200	400	600	800	1000
V_{RMS}	Maximum RMS Voltage (V)	35	70	140	280	420	560	700
V_{DC}	Maximum DC Blocking Voltage (V)	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward current at $T_L = 75^\circ\text{C}$	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					$T_c = 25^\circ\text{C}$: 10 μA $T_c = 125^\circ\text{C}$: 250 μA		
C_j	Typical Junction Capacitance (1MHz; -4V)	60 pF						
$R_{th(j-a)}$	Typical Thermal Resistance junction to ambient (FRA4 PCB, standard footprint) (FRA4 PCB, Mounting Pad for cathode 1cm ²)	115 °C/W						
		95 °C/W						
$R_{th(j-l)}$	Typical Thermal Resistance Junction to solder point	15 °C/W						
$T_j - T_{stg}$	Operating Junction and Storage Temperature Range	-55 to + 150 °C						

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Ordering information

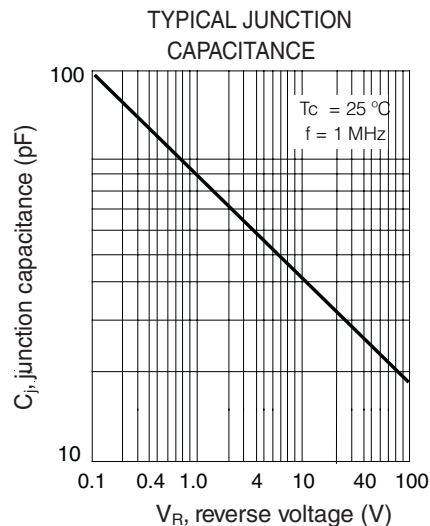
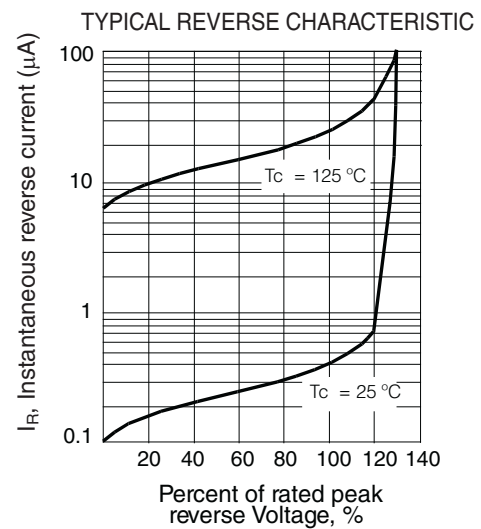
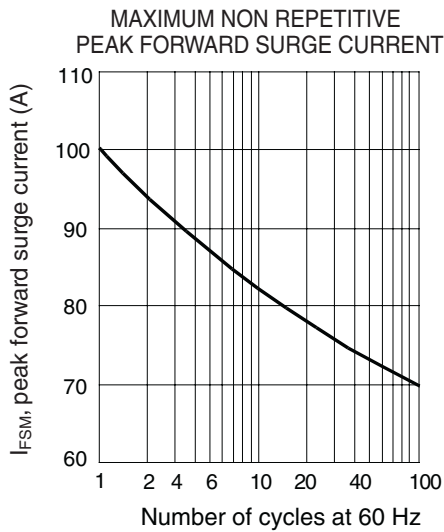
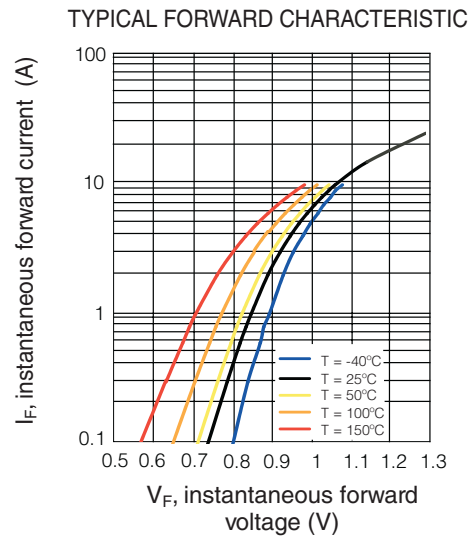
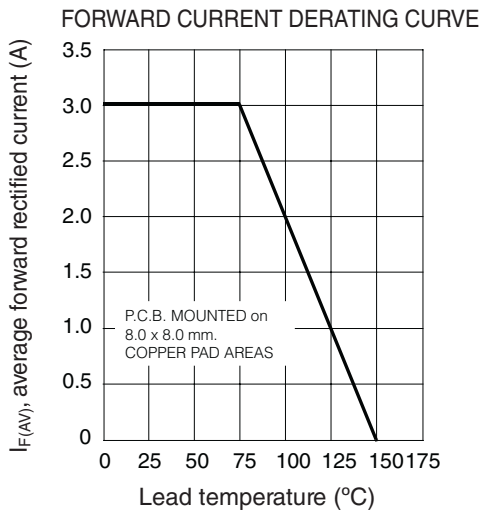
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FS3J TRTB	TRTB	13" diameter tape and reel	3,500	0.201
FS3J HE3 TRTB	TRTB	13" diameter tape and reel	3,500	0.201

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

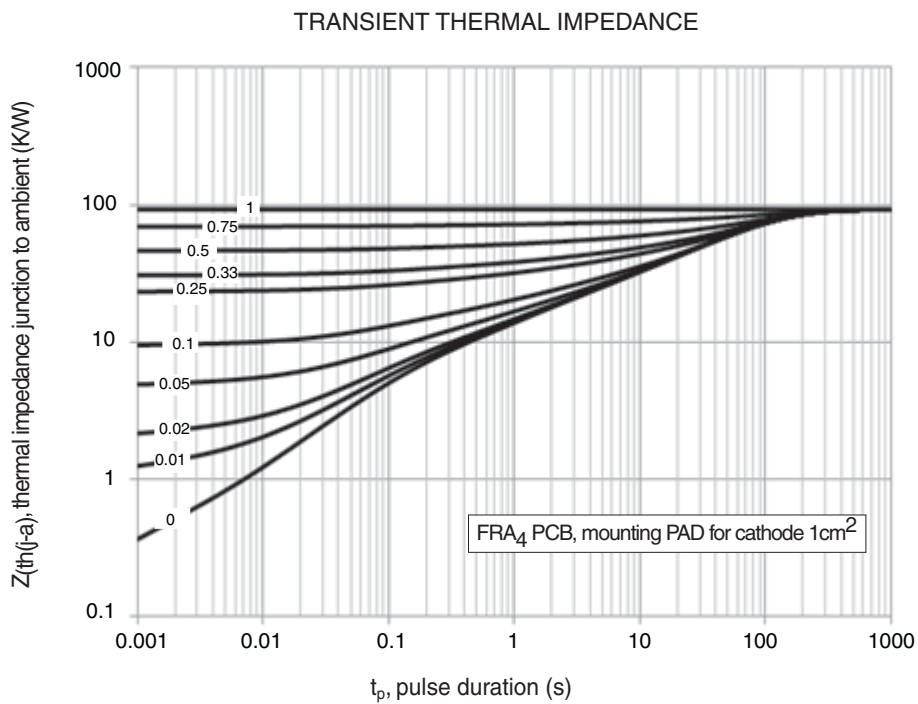
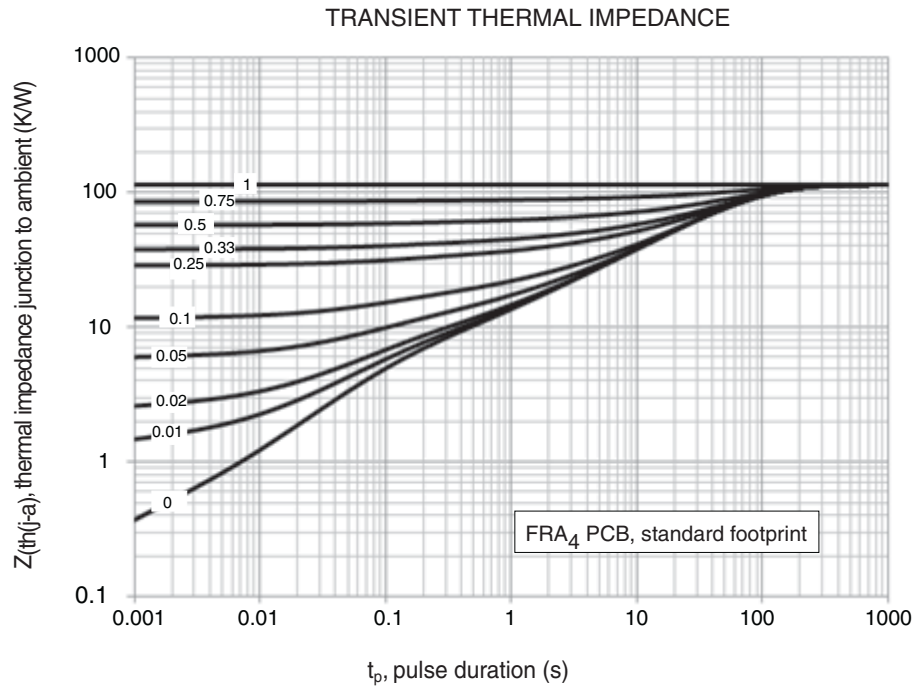


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Ratings and Characteristics (Ta 25 °C unless otherwise noted)



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Date	Revision	Description of Changes
12-Jan-2012	0	Original Data Sheet
17-Dec-2015	1	Transient thermal impedance graph included
11-Jan-2017	2	Temperatures other than 25°C introduced in the forward characteristic graph

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