





3.0 Amp. Surface Mount Glass Passivated Rectifier

DO-214AA / SMB 	Voltage 600 V to 1000 V	Current 3.0 A	
			
	FEATURES <ul style="list-style-type: none"> • 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 • 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 		  RoHS <small>COMPLIANT</small> HALOGEN FREE
	MECHANICAL DATA <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 		
TYPICAL APPLICATIONS Used in general purpose rectification of power supplies, inverters, converters and freewheeling diodes application.			

Maximum Ratings and Electrical Characteristics at 25 °C

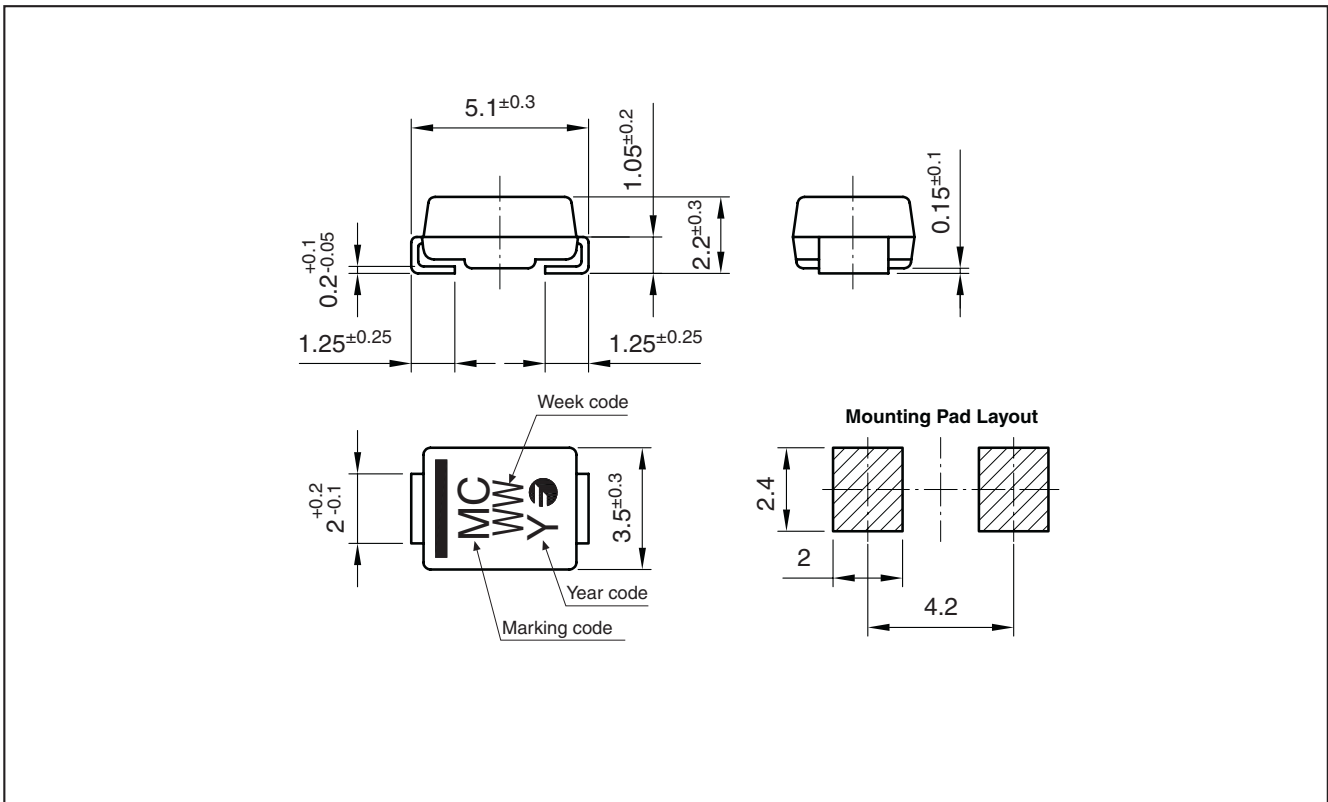
		FS2JI	FS2KI	FS2MI
Marking Code		V8	VJ	V9
Halogen Free Marking Code		Y1	Y2	Y3
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	600	800	1000
V_{RMS}	Maximum RMS Voltage (V)	420	560	700
V_{DC}	Maximum DC Blocking Voltage (V)	600	800	1000
$I_{F(AV)}$	Forward Current @ $T_C = 100\text{ °C}$	3.0 A		
I_{FSM}	8.3 ms. peak forward surge current (JEDEC Method)	90 A		
V_F	Maximum Instantaneous Forward Voltage @ 3.0A	1.05 V		
I_R	Maximum DC Reverse Current @ $T_c = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_c = 125\text{ °C}$	1 μ A 125 μ A		
T_{rr}	Maximum Reverse Recovery Time $I_F = 0.5\text{ A}$; $I_R = 1\text{ A}$; $I_{RR} = 0.25\text{ A}$	4 μ s		
C_j	Typical Junction Capacitance (1MHz; -4V)	30 pF		
$R_{th(j-c)}$	Maximum Thermal Resistance	20 °C/W		
$R_{th(j-a)}$	(5x5 mm ² x 130 μ Copper Area)	60 °C/W		
$T_j - T_{stg}$	Operating Junction and Storage Temperature Range	-55 to + 150 °C		

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Ordering information

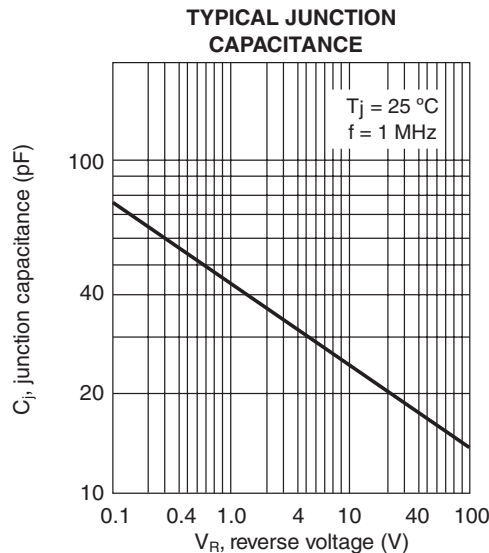
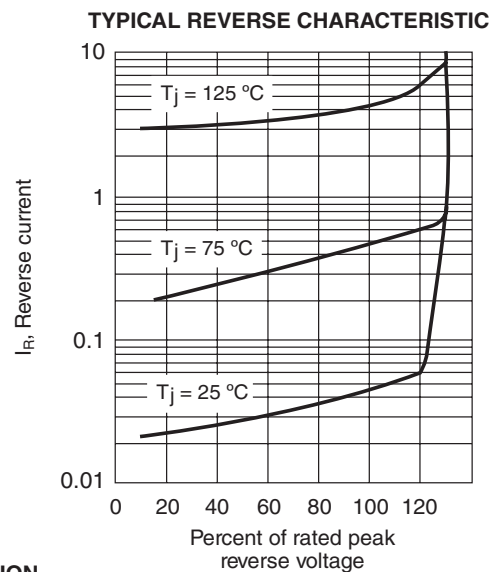
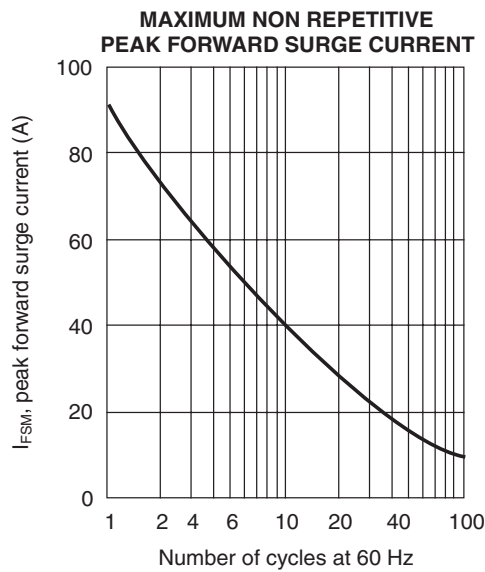
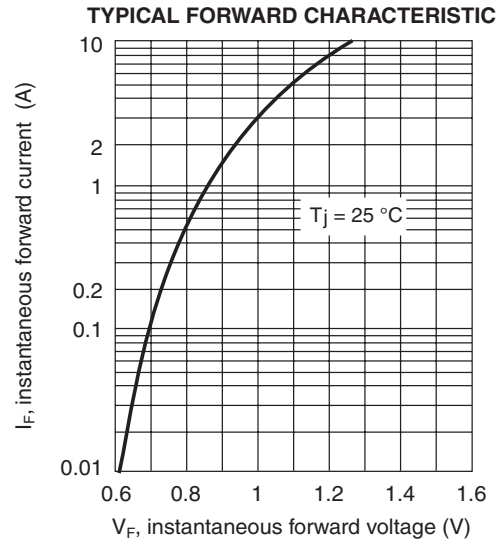
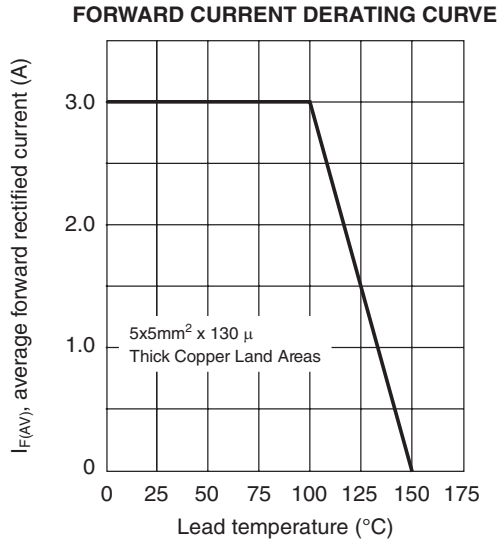
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FS2KI TRTB	TRTB	13" diameter tape and reel	3,200	0.082
FS2KI TRTS	TRTS	7" diameter tape and reel	750	0.082
FS2KI HF TRTB	TRTB	13" diameter tape and reel	3,200	0.082

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



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



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Disclaimer

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