









## 4.0 Amp. Surface Mount Glass Passivated Rectifier

<p><b>DO-214AB / SMC</b></p> 	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><b>Voltage</b> 50 V to 1000 V</td> <td style="text-align: center;"><b>Current</b> 4.0 A</td> </tr> <tr> <td colspan="2" style="text-align: center;">  </td> </tr> </table> <p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>Low profile package</li> <li>Ideal for automated placement</li> <li>Low forward voltage drop</li> <li>High forward surge current capability</li> <li>Solder dip 260°C, 10s</li> <li>Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC</li> <li>Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C</li> <li>Low leakage current</li> </ul> <div style="display: flex; justify-content: flex-end; align-items: center; gap: 10px;">     </div> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li><b>Case:</b> DO-214AB (SMC). Epoxy meets UL 94V-0 flammability rating.</li> <li><b>Polarity:</b> Color band denotes cathode end.</li> <li><b>Terminals:</b> 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.</li> </ul> <p><b>TYPICAL APPLICATIONS</b></p> <p>Used in general purpose rectification of power supplies, inverters, converters and freewheeling diodes for consumer, automotive and telecommunication.</p>	<b>Voltage</b> 50 V to 1000 V	<b>Current</b> 4.0 A		
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### Maximun Ratings and Electrical Characteristics at 25°C

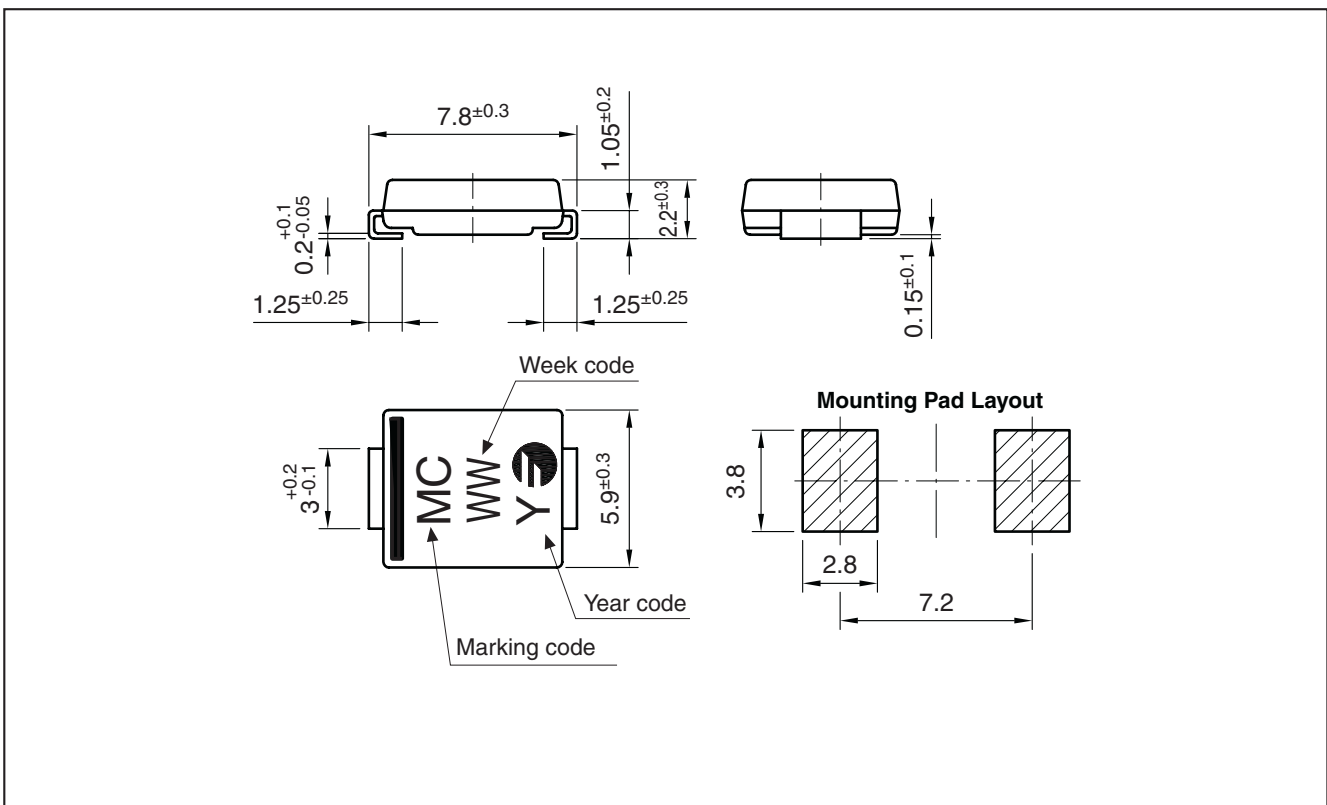
		FS4A	FS3B	FS4D	FS4G	FS4J	FS4K	FS4M
Marking Code		ABA	ABB	ABC	ABD	ABE	ABF	ABG
$V_{RRM}$	Maximum Recurrent Peak Reverse Voltage (V)	50	100	200	400	600	800	1000
$V_{RMS}$	Maximum RMS Voltage (V)	35	70	140	280	420	560	700
$V_{DC}$	Maximum DC Blocking Voltage (V)	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward current at $T_C = 75^\circ C$	4.0 A						
$I_{FSM}$	8.3 ms. peak forward surge current (Jedec Method)	100 A						
$V_F$	Maximum Instantaneous Forward Voltage at 4.0A	1.15 V						
$I_R$	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_C = 25^\circ C$			$T_C = 125^\circ C$			
		10 $\mu A$			250 $\mu A$			
$C_j$	Typical Junction Capacitance (1MHz; -4V)	60 pF						
$R_{th(j-l)}$	Typical Thermal Resistance (5x5 mm <sup>2</sup> x 130 $\mu$ Copper Area)	13 °C/W						
$R_{th(j-a)}$		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)
FS4J TRTB	TRTB	13" diameter tape and reel	3,500	0.201
FS4J HE3 TRTB	TRTB	13" diameter tape and reel	3,500	0.201

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





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### Disclaimer

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