

## 8.0 Amp. Surface Mount Glass Passivated Rectifier

<p><b>DO-214AB (SMC)</b></p> 	<p><b>Voltage</b> 200 V to 1000 V</p> <p><b>Current</b> 8.0 A</p> <p style="color: red; font-weight: bold; font-size: 1.2em;">HYPERECTIFIER<sup>®</sup></p>
<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>Low leakage current</li> <li>High forward surge current capability</li> <li>Solder dip 260°C, 10s</li> <li>AEC-Q101 qualified</li> <li>Component in accordance to RoHS 2011/65/EC and WEEE 2002/96/EC</li> <li>Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C</li> <li>Halogen-free available according to IEC 61249-2-21 definition</li> </ul>	
<p><small>AUTOMOTIVE GRADE Available</small></p> <p></p> <p></p> <p><b>RoHS COMPLIANT</b></p> <p><small>HALOGEN FREE</small></p>	
<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.</li> <li><b>HE3 suffix</b> for high reliability grade, 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>	

### Maximum Ratings and Electrical Characteristics at 25 °C

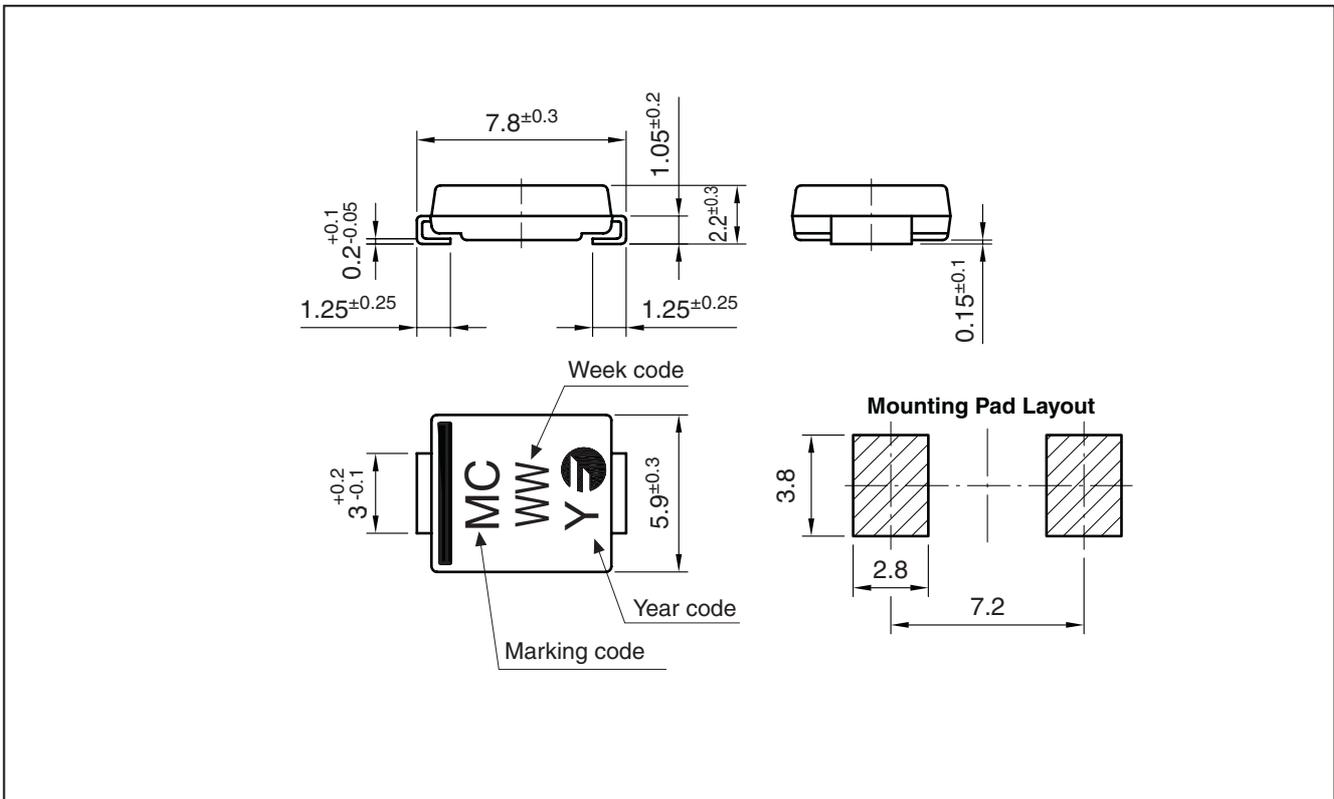
		<b>FS8D</b>	<b>FS8J</b>	<b>FS8K</b>	<b>FS8M</b>
<b>Marking Code</b>		3A	3B	3D	3C
<b>Halogen Free Marking Code</b>		3G	3H	3E	3I
$V_{RRM}$	Maximum Recurrent Peak Reverse Voltage (V)	200	600	800	1000
$V_{RMS}$	Maximum RMS Voltage (V)	140	420	560	700
$V_{DC}$	Maximum DC Blocking Voltage (V)	200	600	800	1000
$I_{F(AV)}$	Forward Current @ $T_C = 75\text{ °C}$	8.0 A			
$I_{FSM}$	8.3 ms. peak forward surge current (Jedec Method)	200 A			
$V_F$	Maximum Instantaneous Forward Voltage @ 8.0A	1.20 V			
$I_R$	Maximum DC Reverse Current @ $T_C = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_C = 125\text{ °C}$	10 $\mu$ A 250 $\mu$ A			
$C_j$	Typical Junction Capacitance (1MHz; -4V)	60 pF			
$R_{th(j-c)}$	Typical Thermal Resistance	13 °C/W			
$R_{th(j-a)}$	(5x5 mm <sup>2</sup> x 130 $\mu$ 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**

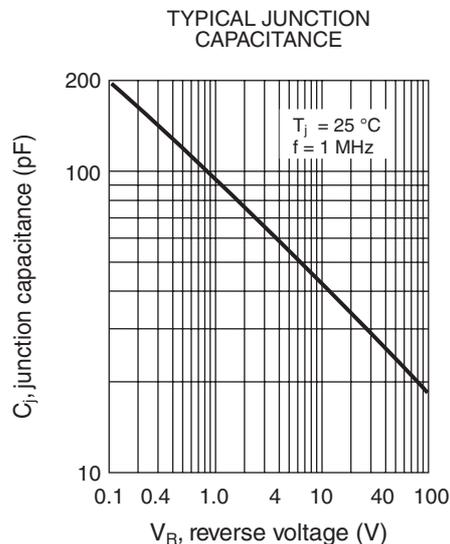
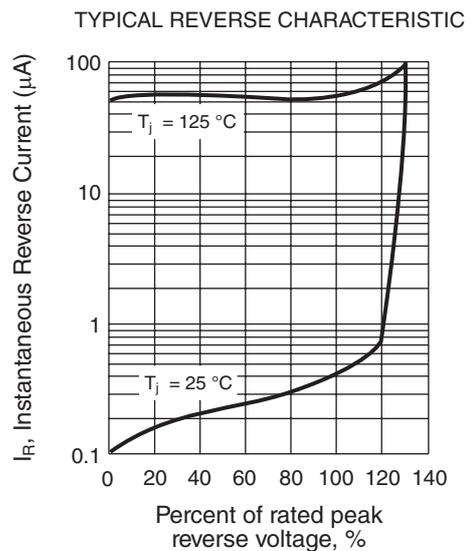
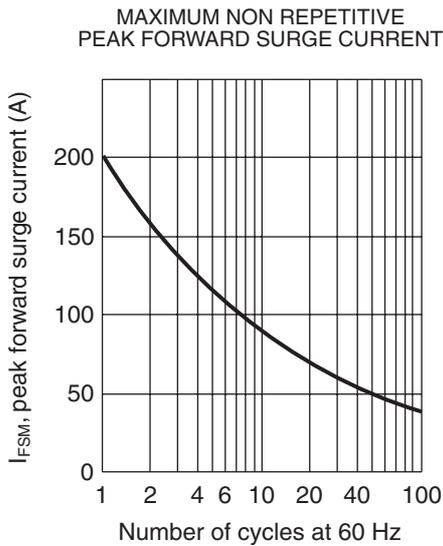
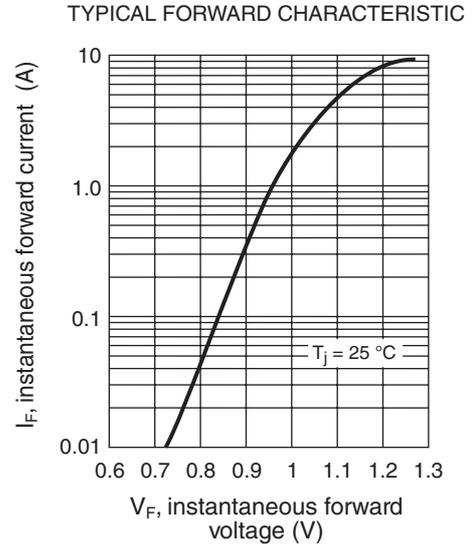
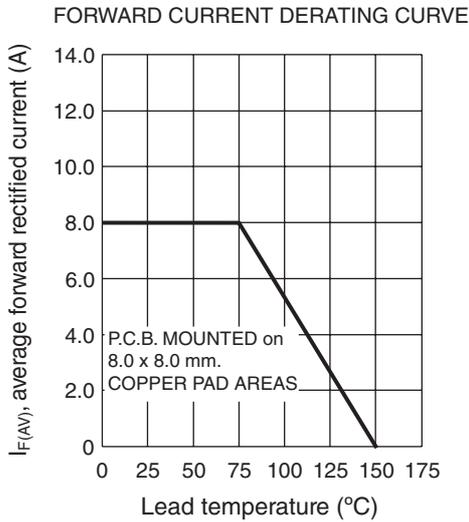
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FS8M TRTB	TRTB	13" diameter tape and reel	3,000	0.210
FS8M HE3 TRTB	TRTB	13" diameter tape and reel	3,000	0.210
FS8M HF TRTB	TRTB	13" diameter tape and reel	3,000	0.210

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



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



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### Revision History

Date	Revision	Description of Changes
21-Feb-2012	0	Original Data Sheet
04-Feb-2015	1	HE3 Version included

### Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

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