





**2.0 Amp. Surface Mount Glass Passivated Ultrafast Recovery Rectifier**

<b>DO-214AA (SMB)</b>  	<b>Voltage</b> 50 to 1000 V	<b>Current</b> 2.0 A	
			
	<b>FEATURES</b> <ul style="list-style-type: none"> <li>• Low profile package</li> <li>• Ideal for automated placement</li> <li>• Ultrafast recovery time for high efficiency</li> <li>• Low power losses</li> <li>• Low forward voltage drop</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/EU and WEEE 2002/96/EC</li> <li>• Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C</li> </ul>		  <b>RoHS</b> COMPLIANT
	<b>MECHANICAL DATA</b> <ul style="list-style-type: none"> <li>• <b>Case:</b> DO-214AA (SMB). 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> </ul>		
<b>TYPICAL APPLICATIONS</b> Used in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer, automotive and telecommunication.			

**Maximun Ratings and Electrical Characteristics at 25°C**

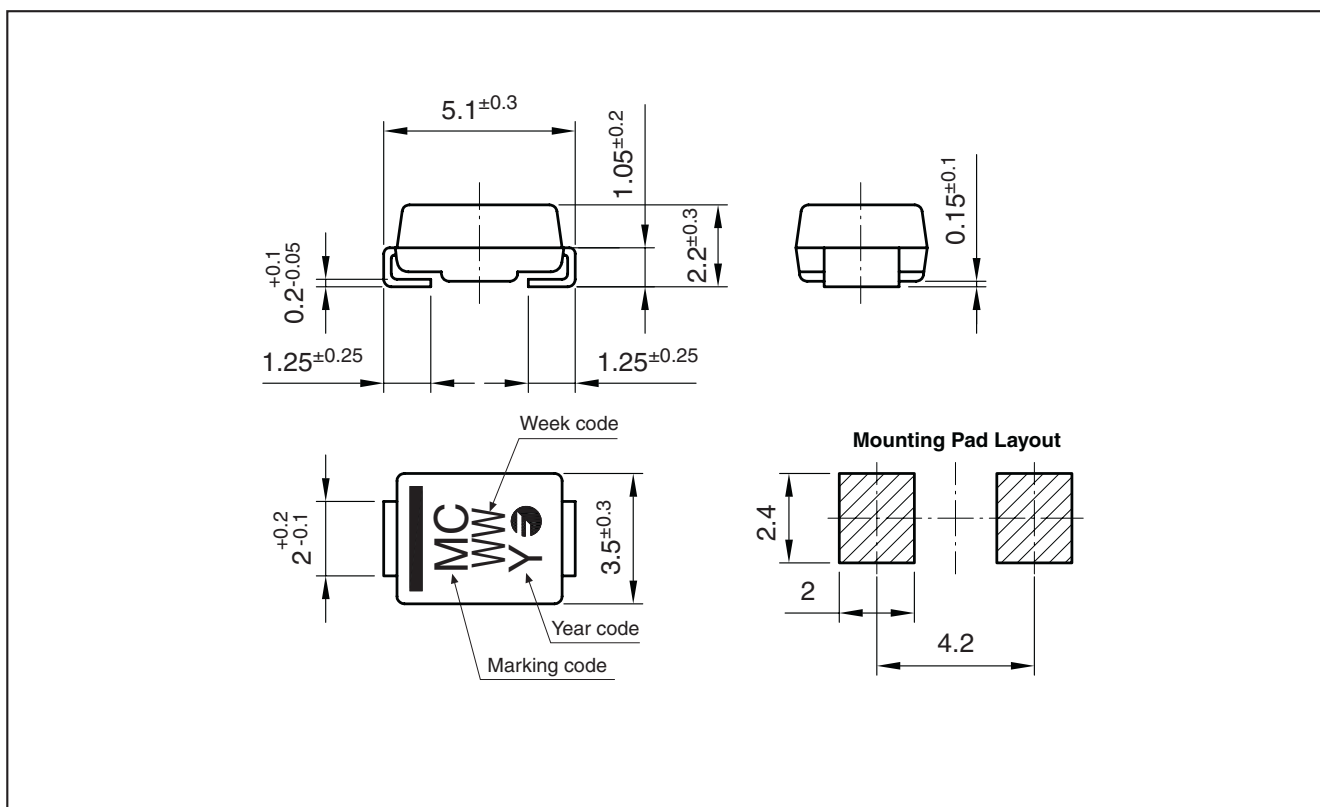
		FUF2A	FUF2B	FUF2D	FUF2G	FUF2J	FUF2K	FUF2M
Marking Code		<b>UN</b>	<b>UP</b>	<b>UQ</b>	<b>UR</b>	<b>US</b>	<b>UT</b>	<b>UU</b>
V <sub>RRM</sub>	Maximum Recurrent Peak Reverse Voltage (V)	50	100	200	400	600	800	1000
V <sub>RMS</sub>	Maximum RMS Voltage (V)	35	70	140	280	420	560	700
V <sub>DC</sub>	Maximum DC Blocking Voltage (V)	50	100	200	400	600	800	1000
I <sub>F(AV)</sub>	Forward Current at T <sub>L</sub> = 100 °C	2.0 A						
I <sub>FSM</sub>	8.3 ms. peak forward surge current (Jedec Method)	75 A						
V <sub>F</sub>	Maximum Instantaneous Forward Voltage at 2.0 A	1.3 V				1.7 V		
I <sub>R</sub>	Maximun DC Reverse Current Ta = 25 °C at Rating DC Blocking Voltage Ta = 100 °C	5 µA				100 µA		
t <sub>rr</sub>	Max. Reverse Recovery Time from I <sub>F</sub> = 0.5 A ; I <sub>R</sub> = 1 A ; I <sub>RR</sub> = 0.25 A	50 ns				75 ns		
C <sub>j</sub>	Typical Junction Capacitance (1MHz; -4V)	45 pF						
R <sub>th</sub> (j-l) R <sub>th</sub> (j-a)	Typical Thermal Resistance (5x5 mm <sup>2</sup> x 130µ Copper Area)	20 °C/W				61 °C/W		
T <sub>j</sub> - T <sub>stg</sub>	Operating Junction and Storage Temperature Range	-55 to + 150 °C						

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**Ordering information**

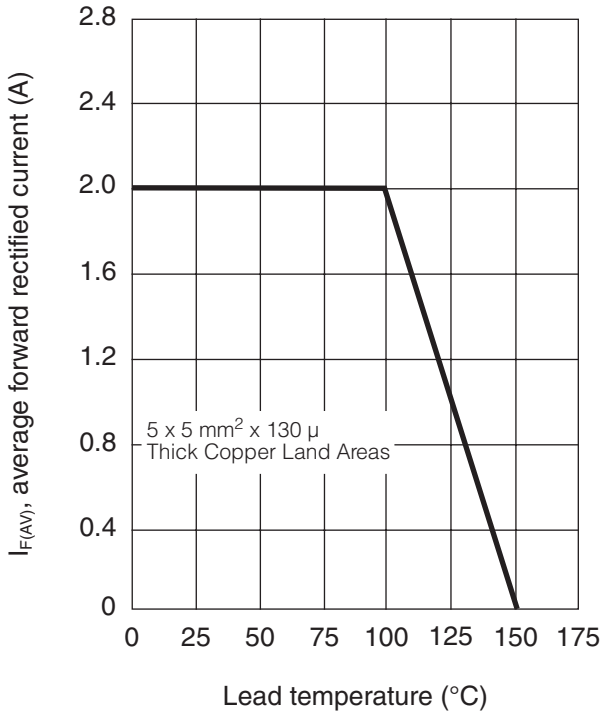
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FUF2D TRTB	TRTB	13" diameter tape and reel	3,200	0.082

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

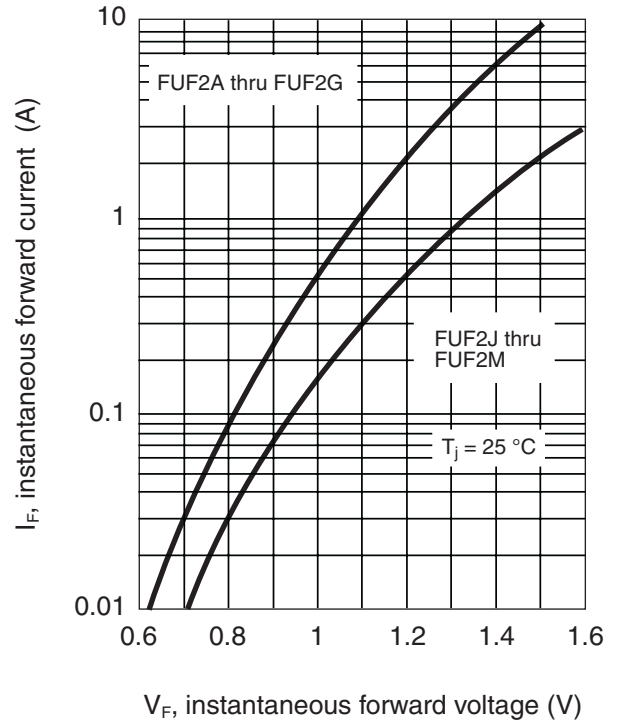


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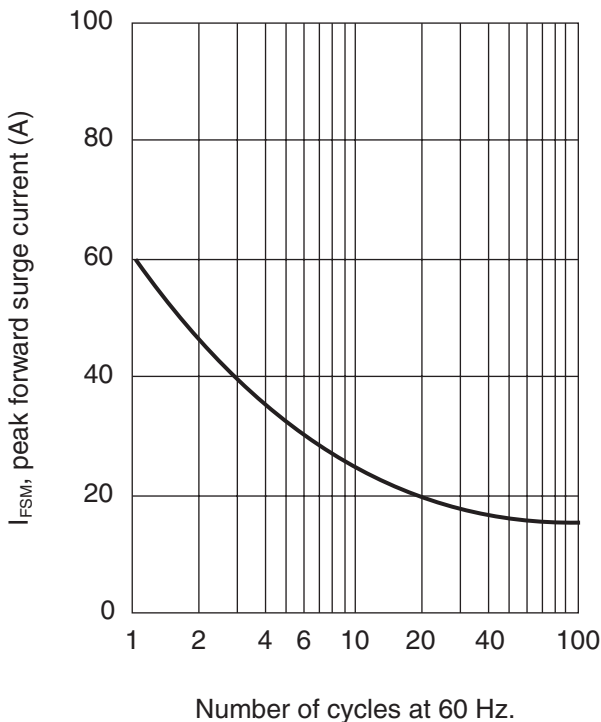
**FORWARD CURRENT DERATING CURVE**



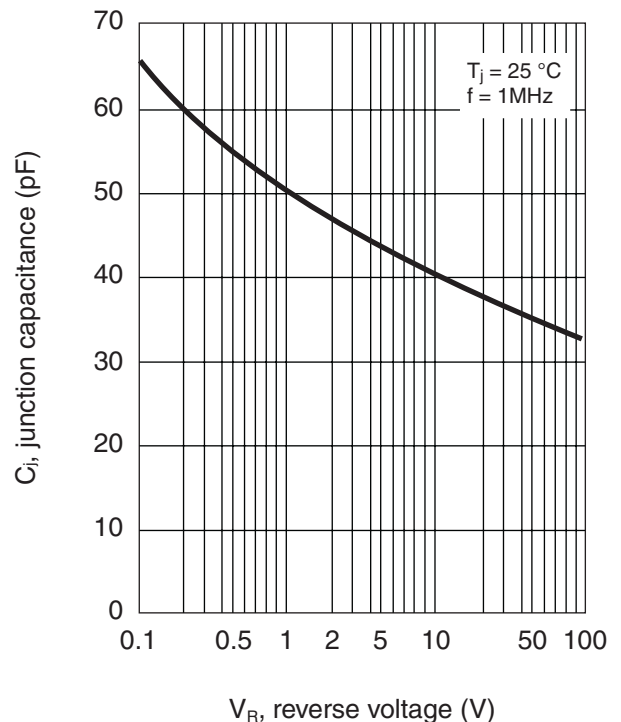
**TYPICAL FORWARD CHARACTERISTIC**



**MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT**



**TYPICAL JUNCTION CAPACITANCE**



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