

1.5 Amp. Surface Mount Glass Passivated Ultrafast Recovery Rectifier

<p>DO-214AC (SMA)</p> 	<p>Voltage 50 to 1000 V</p> <p>Current 1.5 A at 55°C</p> <p>HYPERRECTIFIER®</p>
<p>FEATURES</p> <ul style="list-style-type: none"> • Low profile package • Ideal for automated placement • Ultrafast recovery time for high efficiency • Low power losses • 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 	
   RoHS COMPLIANT	
<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: DO-214AC (SMA). 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. 	
<p>TYPICAL APPLICATIONS</p> <p>Used in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer, automotive and telecommunication.</p>	

Maximun Ratings and Electrical Characteristics at 25°C

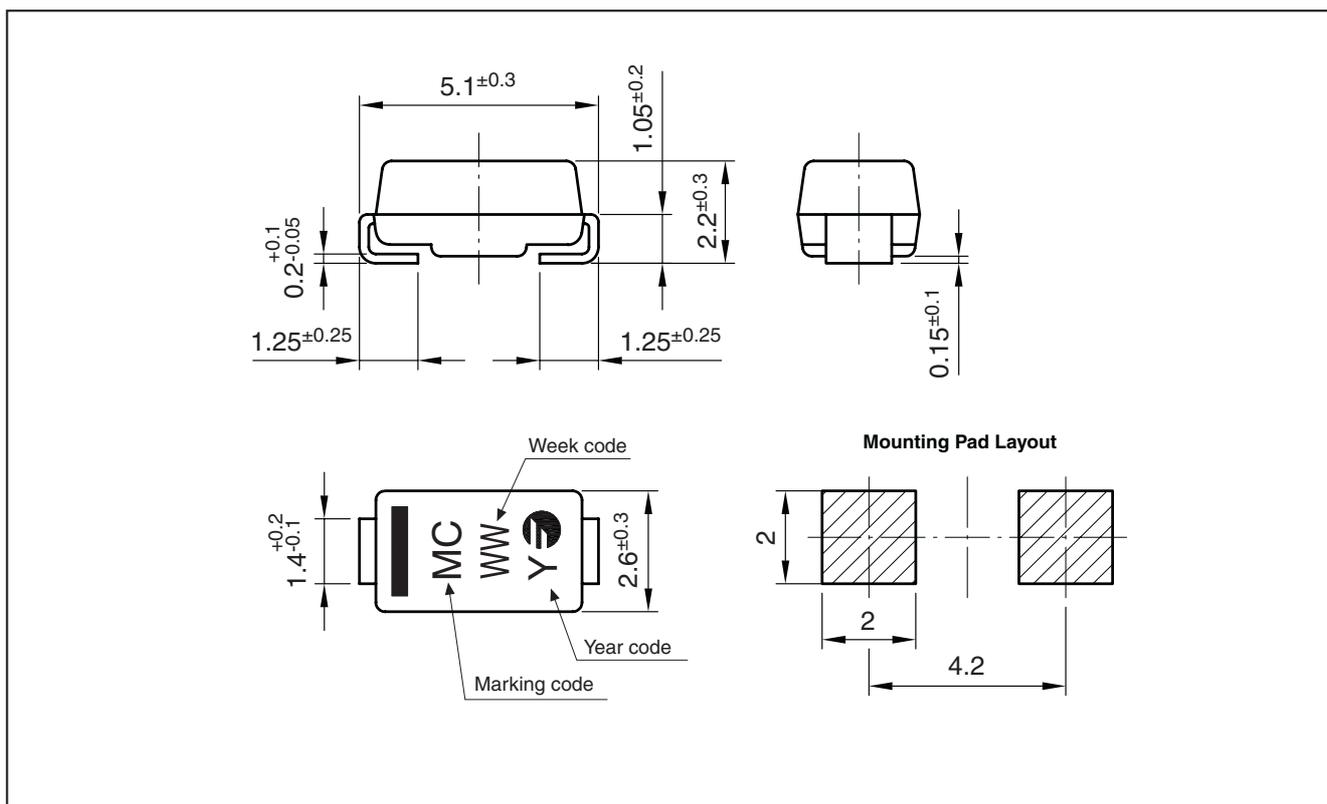
		FUF1A	FUF1B	FUF1D	FUF1G	FUF1J	FUF1K	FUF1M
Marking Code		UE	UF	UG	UH	UI	UJ	UK
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	50	100	200	400	600	800	1000
V_{RMS}	Maximum RMS Voltage (V)	35	70	140	280	420	560	700
V_{DC}	Maximum DC Blocking Voltage (V)	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward current at $T_C = 55^\circ\text{C}$	1.5 A						
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	30 A						
V_F	Maximum Instantaneous Forward Voltage at 1.0A	1.3 V				1.7 V		
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_j = 25^\circ\text{C}$ 5 μA				$T_j = 100^\circ\text{C}$ 100 μA		
T_{rr}	Maximum Reverse Recovery Time (0.5/1/0.25A)	50 ns				75 ns		
C_j	Typical Junction Capacitance (1MHz; -4V)	15 pF						
$R_{th(j-c)}$	Maximum Thermal Resistance (5x5 mm ² x 130 μ Copper Area)	27 °C/W						
$R_{th(j-a)}$		75 °C/W						
$T_j - T_{stg}$	Operating Junction and Storage Temperature Range	-55 to + 150 °C						

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Ordering information

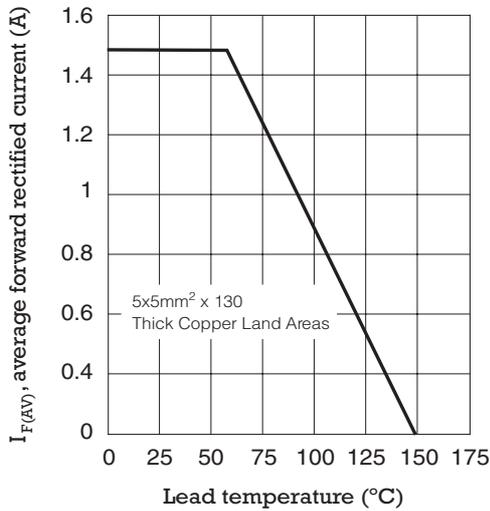
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FUF1J TRTB	TRTB	13" diameter tape and reel	7,500	0.060
FUF1J HE3 TRTB	TRTB	13" diameter tape and reel	7,500	0.060
FUF1J TRTS	TRTS	7" diameter tape and reel	1,500	0.060

Package Outline Dimensions: (mm) DO-214AC (SMA)

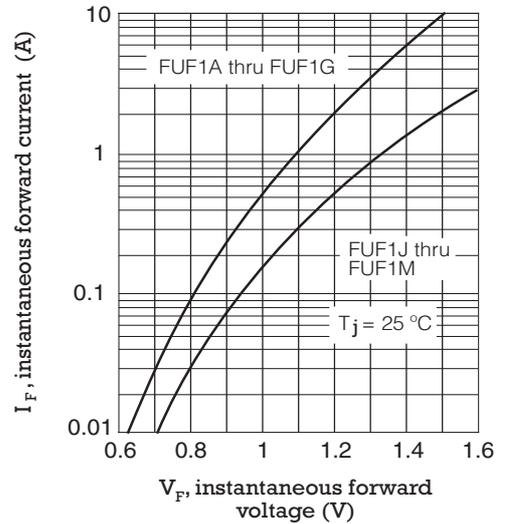


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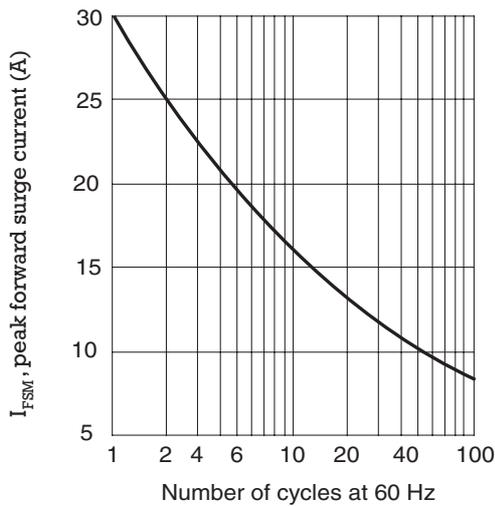
FORWARD CURRENT DERATING CURVE



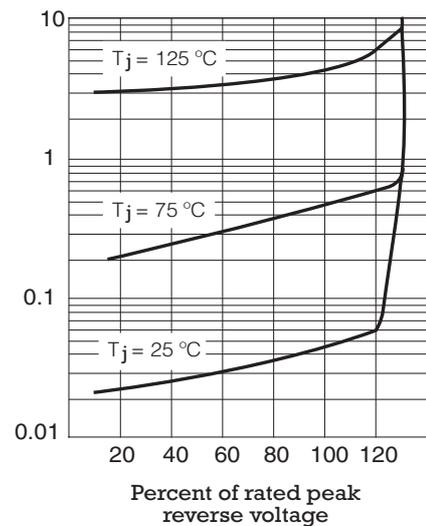
TYPICAL FORWARD CHARACTERISTIC



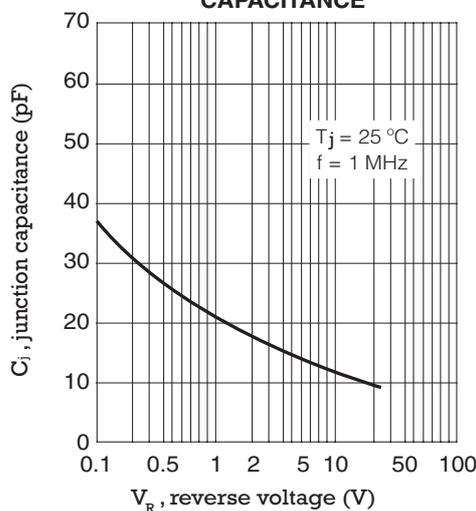
MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION CAPACITANCE



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