

1 Amp. Surface Mounted Glass Passivated Ultrafast Recovery Rectifier

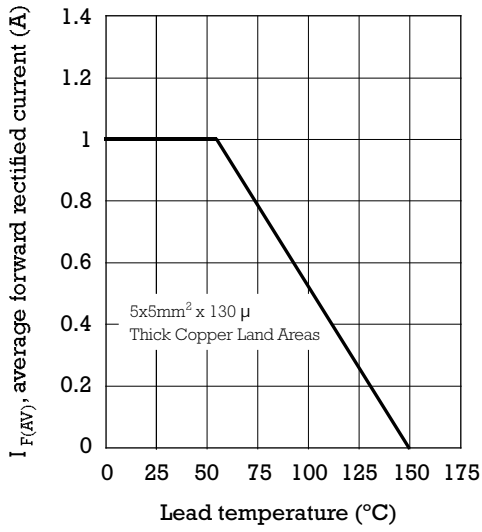
<p>Dimensions in mm.</p> <p>Week code</p> <p>Year code</p> <p>Type No. Class</p> <p>Standard soldering pad</p>	<p>CASE: SMA/DO-214AC</p>	<p>Voltage 50 to 1000 V</p> <p>Current 1.0 A at 55 °C</p>
<ul style="list-style-type: none"> • Glass passivated junction • High current capability • The plastic material carries U/L 94 V-0 • Low profile package • Easy pick and place • High temperature soldering 260 °C 10 sec 		
<p>MECHANICAL DATA</p> <p>Terminals: Solder plated, solderable per IEC 68-2-20. Standard Packaging: 4 mm. tape (EIA-RS-481). Weight: 0.064 g.</p>		

Maximum Ratings and Electrical Characteristics at 25 °C

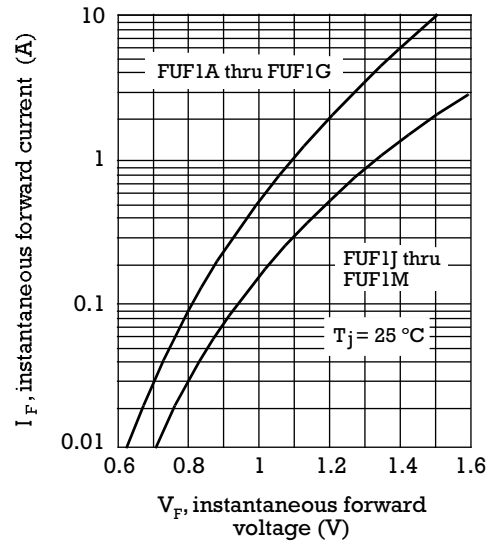
		FUF1A	FUF1B	FUF1D	FUF1G	FUF1J	FUF1K	FUF1M
Marking Code		UE	UF	UG	UH	UI	UJ	UK
V_{RRM}	Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward current at $T_L = 55\text{ °C}$	1.0 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	$T_a = 25\text{ °C}$		$T_a = 100\text{ °C}$		5 μA 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						
$R_{th(j-l)}$ $R_{th(j-a)}$	Typical Thermal Resistance (5x5 mm ² x 130 μ Copper Area)	27 °C/W		75 °C/W				
$T_j - T_{stg}$	Operating Junction and Storage Temperature Range	-55 to + 150 °C						

Rating And Characteristic Curves

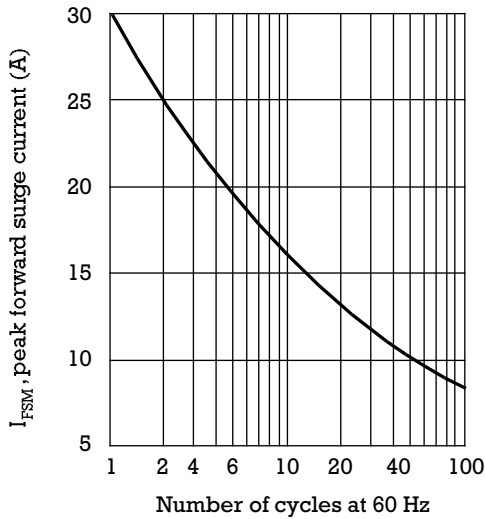
FORWARD CURRENT DERATING CURVE



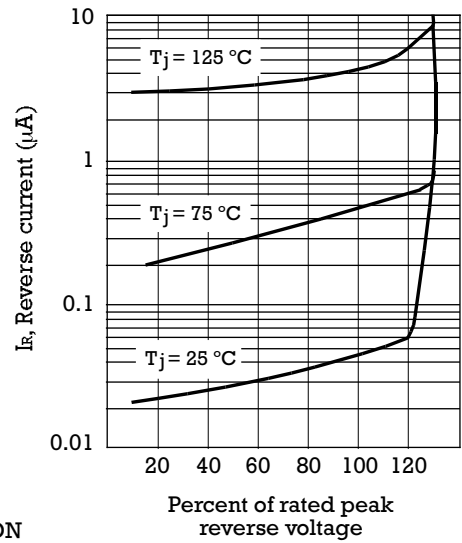
TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION CAPACITANCE

