

1 Amp. Surface Mounted Glass Passivated Rectifier

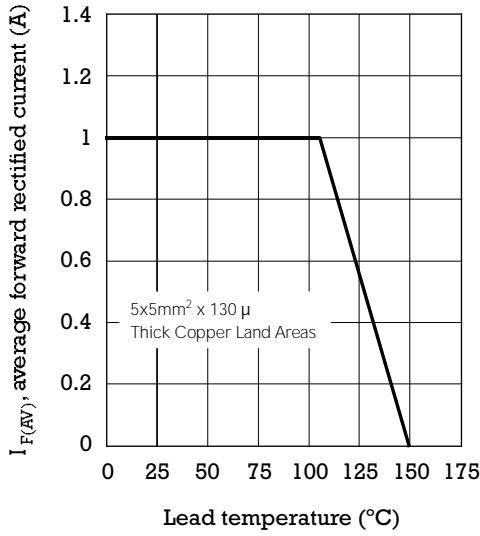
<p>Dimensions in mm.</p> <p>CASE: SMA/DO-214AC</p> <p>Week code F4 12 G Year code Type No. Closs</p> <p>Standard soldering pad</p>	<p>Voltage 400 to 1200 V</p> <p>Current 1.0 A</p>
	<ul style="list-style-type: none"> • Glass passivated junction • High current capability • The plastic material carries 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

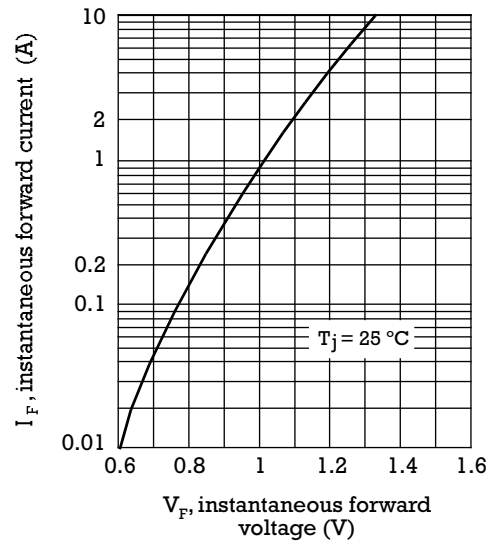
		FS1G	FS1J	FS1K	FS1M	FS1Q
Marking Code		R4	R5	R6	R7	R9
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	400	600	800	1000	1200
V_{RMS}	Maximum RMS Voltage (V)	280	420	560	700	840
V_{DC}	Maximum DC Blocking Voltage (V)	400	600	800	1000	1200
$I_{F(AV)}$	Forward current at $T_1 = 110\text{ °C}$	1.0 A				
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	30 A				
V_F	Maximum Instantaneous Forward Voltage at 1.0A	1.1 V				
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25\text{ °C}$ $T_a = 125\text{ °C}$	1 μ A 50 μ A				
t_{rr}	Typical Reverse Recovery Time (0.5/1/0.25A)	1.8 μ s				
C_j	Typical Junction Capacitance (1MHz; -4V)	12pF				
$R_{th(j-l)}$ $R_{th(j-a)}$	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

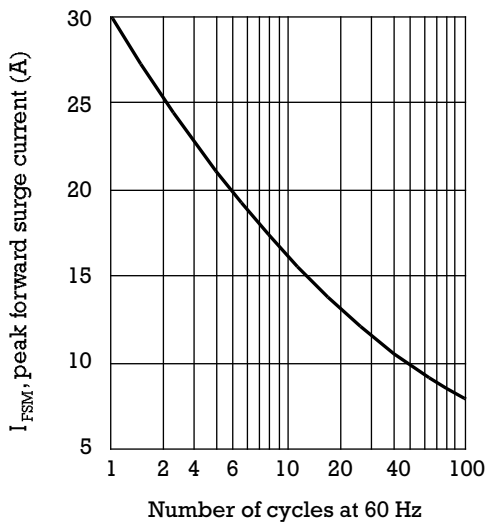
FORWARD CURRENT DERATING CURVE



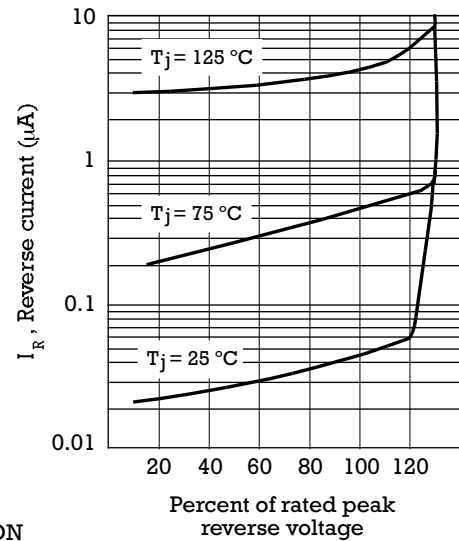
TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION CAPACITANCE

