

1 Amp. Surface Mounted Glass Passivated Rectifier

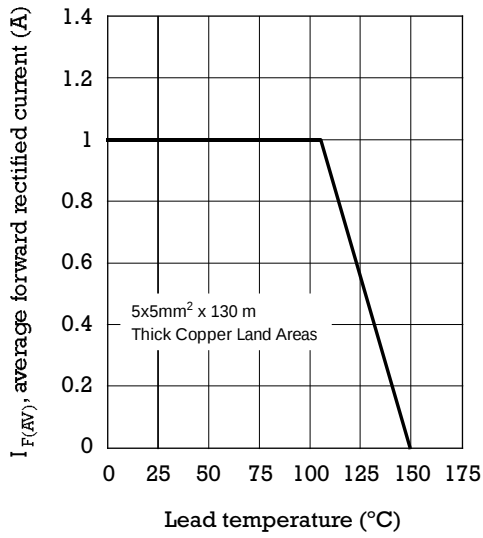
Dimensions in mm.	CASE: SMA/DO-214AC	Voltage 400 to 1200 V Current 1.0 A HYPERRECTIFIER® • Glass passivated junction • High current capability • The plastic material carries U/L 94 V-0 • Low profile package • Easy pick and place • High temperature soldering 260 °C 10 sec
MECHANICAL DATA Terminals: Solder plated, solderable per IEC 68-2-20. Standard Packaging: 4 mm. tape (EIA-RS-481). Weight: 0.064 g.		

Maximum Ratings and Electrical Characteristics at 25 °C

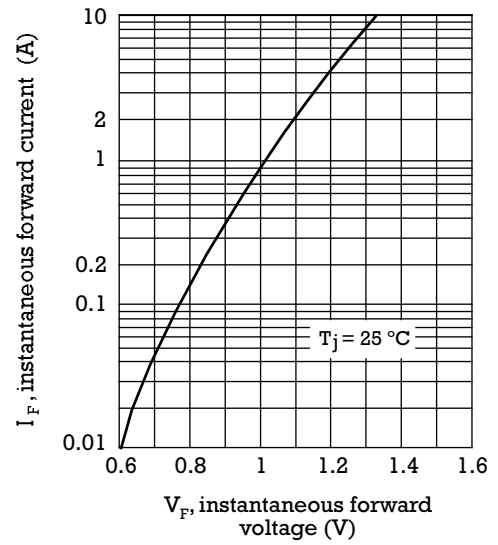
		FS1G	FS1J	FS1K	FS1M	FS1Q
Marking Code		R4	R5	R6	R7	R9
V _{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	400	600	800	1000	1200
V _{RMS}	Maximum RMS Voltage (V)	280	420	560	700	840
V _{DC}	Maximum DC Blocking Voltage (V)	400	600	800	1000	1200
I _{F(AV)}	Forward current at T ₁ = 110 °C	1.0 A				
I _{FSM}	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 Ta = 25 °C Ta = 125 °C	1 µA 50 µA				
t _{rr}	Typical Reverse Recovery Time (0.5/1/0.25A)	1.8 µs				
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

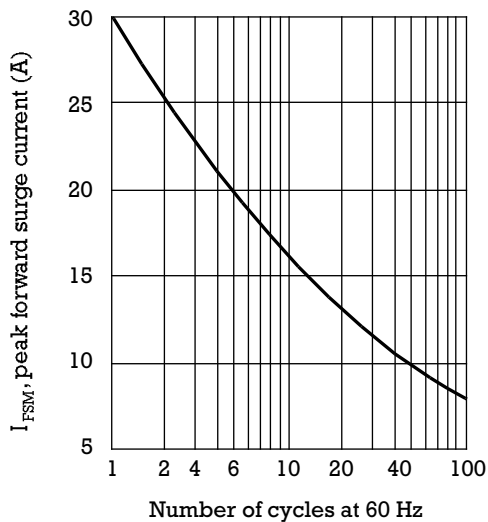
FORWARD CURRENT DERATING CURVE



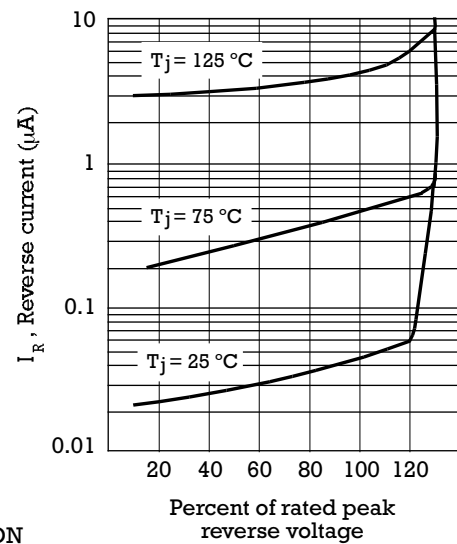
TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION
CAPACITANCE

