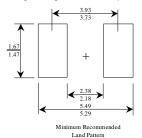


RGF1A - RGF1M

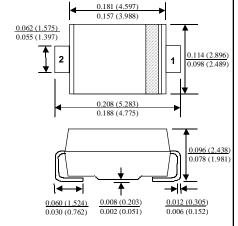
Features

- · Glass passivated junction.
- For surface mounted application.
- · Low forward voltage drop.
- High current capability.
- Easy pick and place.
- High surge current capability.





COLOR BAND DENOTES CATHODE



1.0 Ampere Fast Recovery Rectifiers

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
lo	Average Rectified Current @ T _L = 125°C	1.0	А
İf(surge)	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	30	А
P _D	Total Device Dissipation Derate above 25°C	1.76 11.7	W mW/°C
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient **	85	°C/W
$R_{\theta JL}$	Thermal Resistance, Junction to Lead**	28	°C/W
T _{stg}	Storage Temperature Range	-65 to +175	°C
TJ	Operating Junction Temperature	-65 to +175	°C

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

Electrical Characteristics T_A = 25°C unless otherwise noted

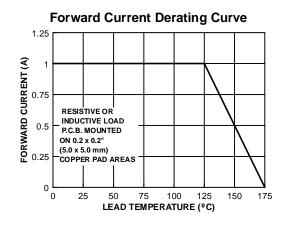
Parameter	Device							Units
	1A	1B	1D	1G	1J	1K	1M	
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
Maximum Reverse Current @ rated V_R $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	5.0 100							μΑ μΑ
Maximum Forward Voltage @ 1.0 A	1.3						V	
Maximum Reverse Recovery Time $I_F = 0.5 \text{ A}, I_R = 1.0 \text{ A}, I_{rr} = 0.25 \text{ A}$	150 250 500						nS	
Typical Junction Capacitance $V_R = 4.0 \text{ V}, f = 1.0 \text{ MHz}$	8.5						pF	

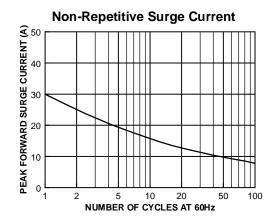
^{**}Device mounted on FR-4 PCB 0.013 mm.

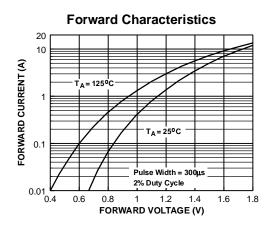
Fast Recovery Rectifiers

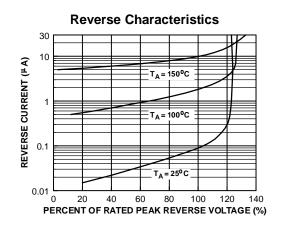
(continued)

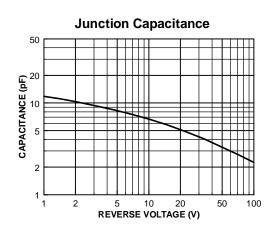
Typical Characteristics







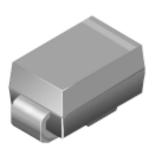


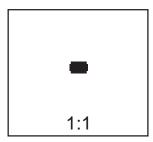


SMA/DO-214AC Package Dimensions



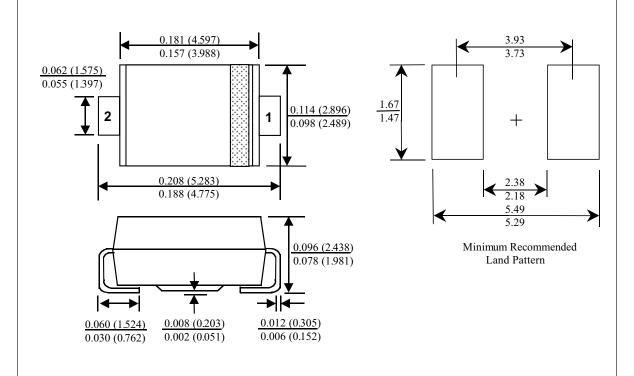
SMA/DO-214AC (FS PKG Code P5)





Scale 1:1 on letter size paper
Dimensions shown below are in:

inches [millimeters]
Part Weight per unit (gram): 0.064



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Definition of Terms

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