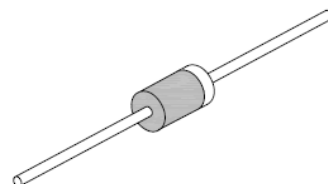


3.0A Sintered Glass Passivated Fast Recovery Rectifier

Features

- Sintered glass passivated (SGP) rectifier chip
- Capable of meeting environmental standards of MIL-S-19500
- For use in high frequency rectifier circuits
- Fast switching for high efficiency
- Typical IR less than 0.1uA
- High temperature soldering guaranteed 260°C/10 seconds
.0375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS Compliance



DO-201AD



Mechanical Data

Case:	JEDEC DO-201AD molded plastic body
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Weight:	0.004 ounces, 1.12 grams

Maximum Ratings and Electrical Characteristics ($T_A=25^{\circ}C$ unless noted otherwise)

Symbol	Description	RGP 30A	RGP 30B	RGP 30D	RGP 30G	RGP 30J	RGP 30K	RGP 30M	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I_{F(AV)}	Maximum Average Forward Rectified Current	3.0							A	0.375" (9.5mm) lead length(Fig.1)
I_{FSM}	Peak Forward Surge Current	125							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

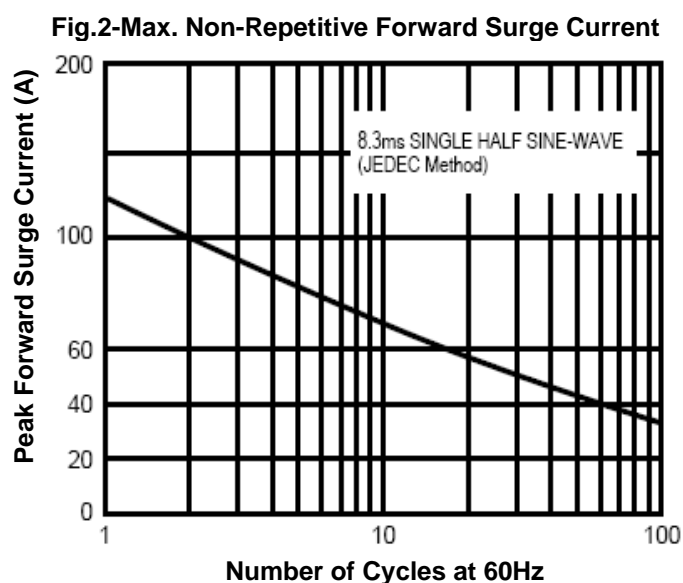
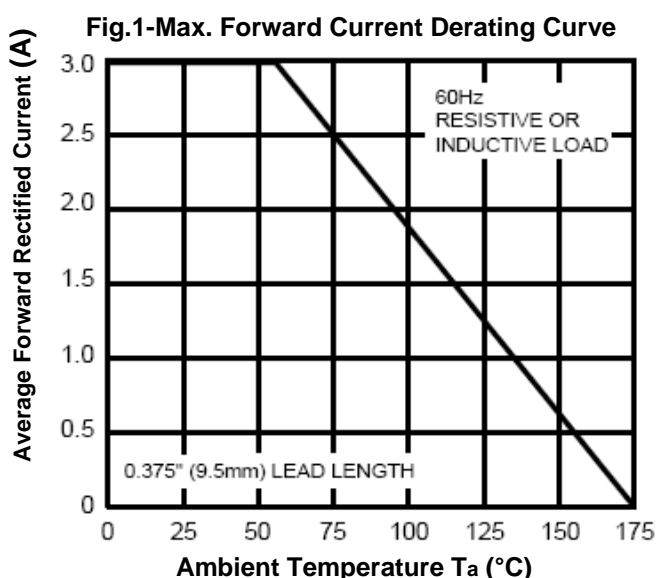
3.0A Sintered Glass Passivated Fast Recovery Rectifier

RGP30A - RGP30M

Symbol	Description	RGP 30A	RGP 30B	RGP 30D	RGP 30G	RGP 30J	RGP 30K	RGP 30M	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage	1.3							V	IF=3.0A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5							μA	TA=25° C
		50								TA=125° C
		120								TA=150° C
T_{rr}	Typical Reverse Recovery Time	150			250		500		nS	IF=0.5A, IR=1A, Irr=0.25A
C_J	Typical Junction Capacitance	60							pF	VR=4V, f=1MHz
R_{thJA}	Typical Thermal Resistance	20							°C / W	Note
T_J	Operating Temperature range	-65 to +175							°C	
T_{stg}	Storage Temperature Range	-65 to +175								

Note: Thermal resistance from junction to ambient at 0.375" (9.5mm) lead lengths, P.C.B mounted.

Typical Characteristics Curves



3.0A Sintered Glass Passivated Fast Recovery Rectifier

RGP30A - RGP30M

Fig.3- Typical Forward Characteristics

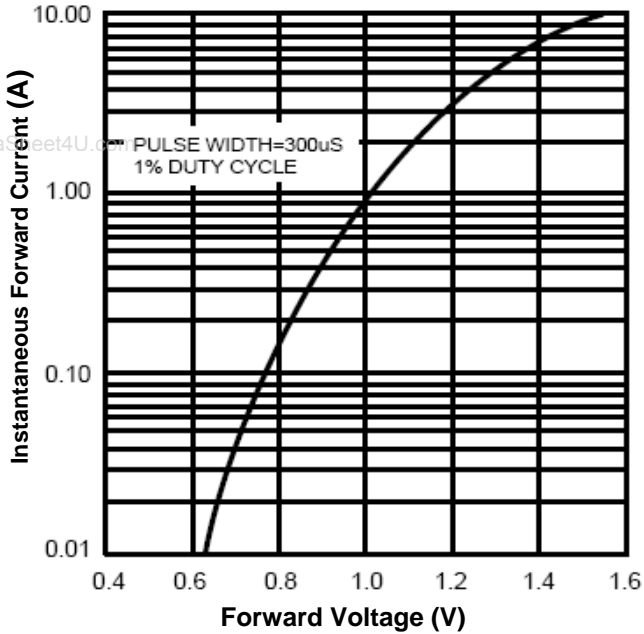


Fig.4-Typical Reverse Characteristics

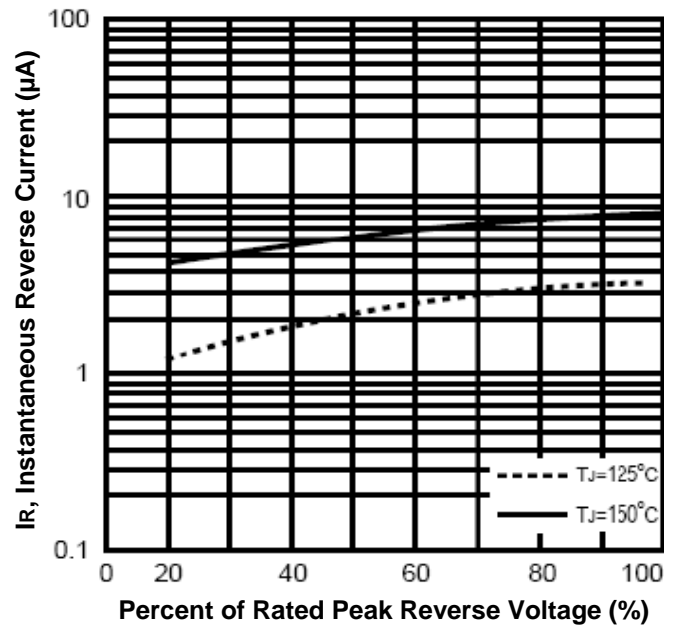
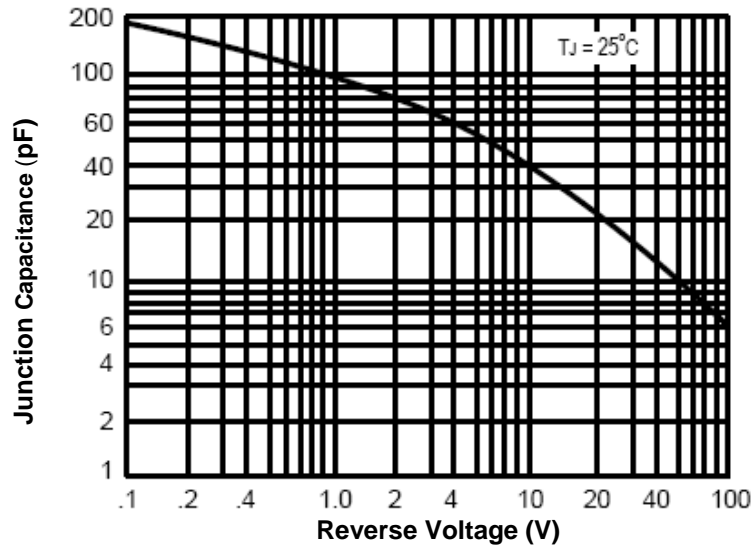


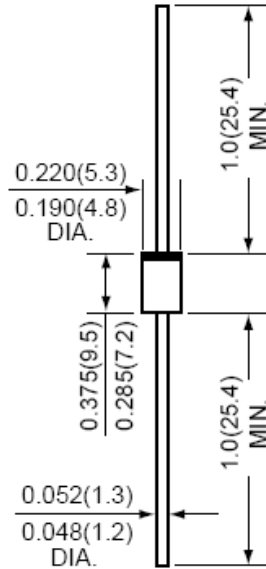
Fig.5- Typical Junction Capacitance



3.0A Sintered Glass Passivated Fast Recovery Rectifier

RGP30A - RGP30M

Dimensions in inches (mm)



DO-201AD

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