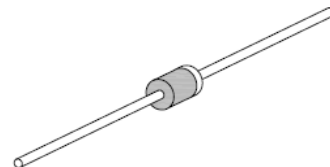


1.0A Sintered Glass Passivated Rectifier (SGP®)

Features

- Sintered glass passivated (SGP®) rectifier chip
- Capable of meeting environmental standards of MIL-S-19500
- 1.0A operation at $T_A=75^\circ\text{C}$ and 55°C with no thermal runaway
- High temperature soldering guaranteed: $260^\circ\text{C}/10$ seconds
/.0375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS Compliance



DO-41
(DO-204AL)



Mechanical Data

Case:	JEDEC DO-204AL(DO-41) 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:	0.012 ounces, 0.3 gram

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

Symbol	Description	GP 10A	GP 10B	GP 10D	GP 10G	GP 10J	GP 10K	GP 10M	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	1.0							A	0.375" (9.5mm) lead length (Fig.1)
I_{FSM}	Peak Forward Surge Current	30							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

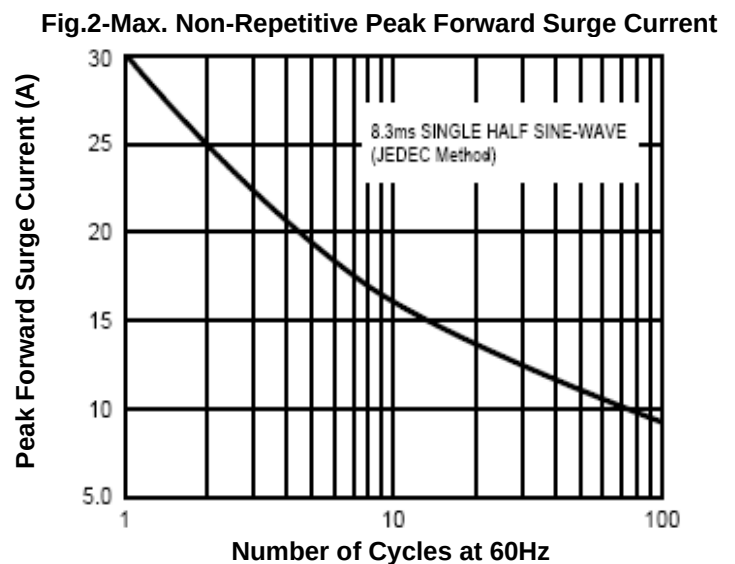
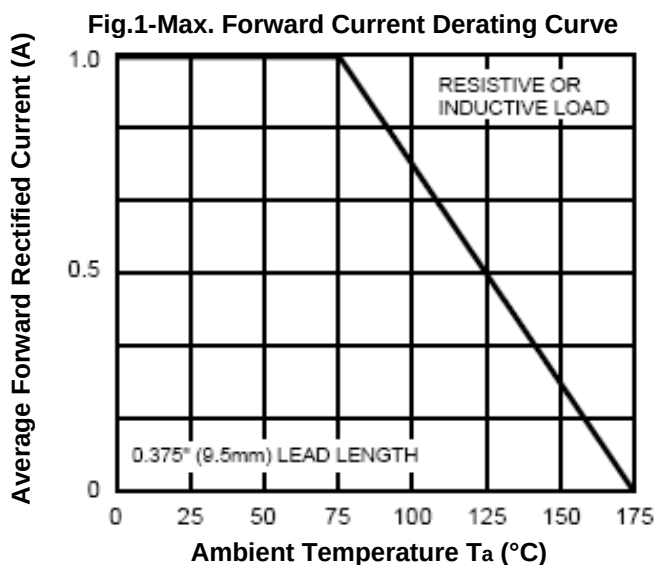
1.0A Sintered Glass Passivated Rectifier (SGP®)

GP10A – GP10M

Symbol	Description	GP 10A	GP 10B	GP 10D	GP 10G	GP 10J	GP 10K	GP 10M	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage	1.0							V	I _F =1.0 A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5							μA	T _A =25° C
		30								T _A =125° C
		50								T _A =150° C
C _J	Typical Junction Capacitance	10							pF	V _R =4V, f=1MHz
R _{thJA}	Typical Thermal Resistance	55							°C / W	Note
T _J , T _{STG}	Operating Junction and Storage Temperature Range	-65 to +175							° C	

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

Typical Characteristics Curves



1.0A Sintered Glass Passivated Rectifier (SGP[®])

GP10A - GP10M

Fig.3- Typical Instantaneous Forward Characteristics

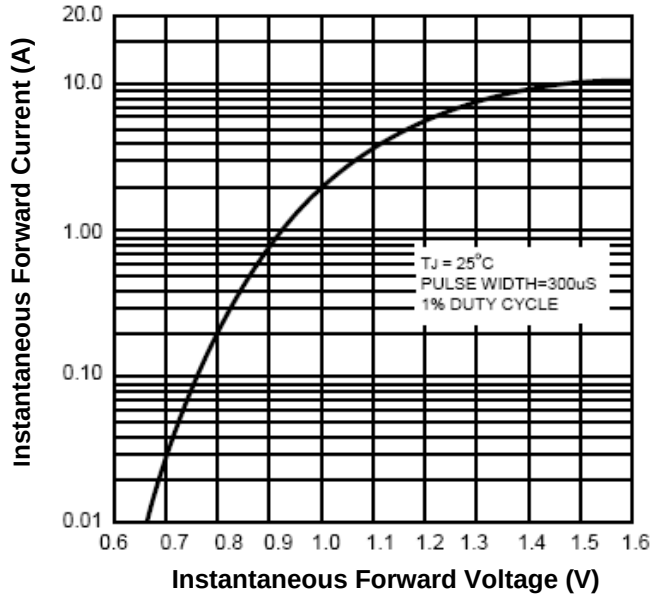


Fig.4-Typical Reverse Characteristics

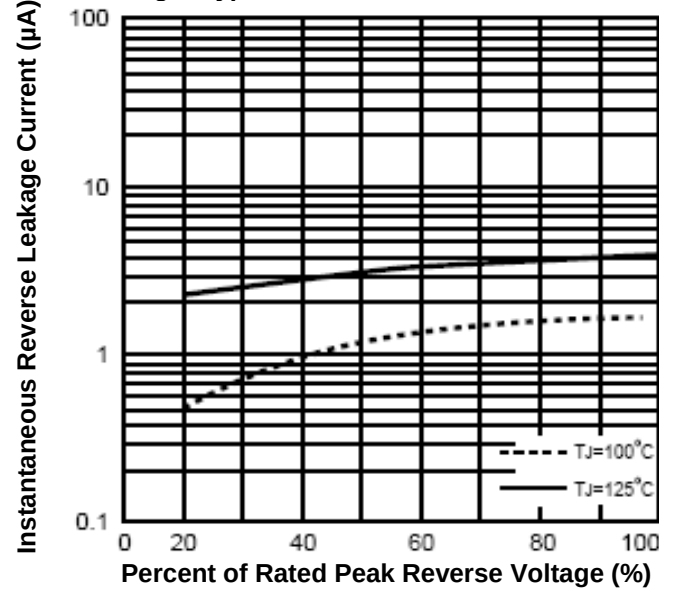
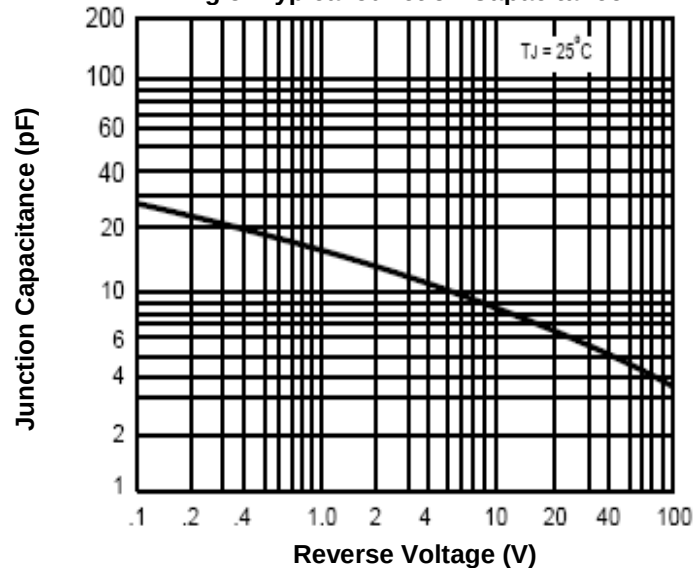


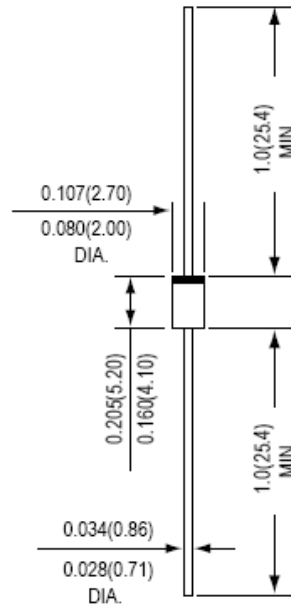
Fig.5- Typical Junction Capacitance



1.0A Sintered Glass Passivated Rectifier (SGP®)

GP10A - GP10M

Dimensions in inches (mm)



DO-41
(DO-204AL)

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