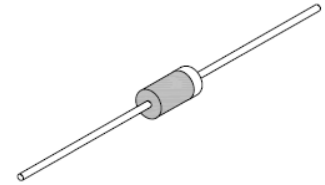


2.0A Sintered Glass Passivated Rectifier (SGP®)

Features

- Sintered glass passivated (SGP®) rectifier chip
- Capable of meeting environmental standards of MIL-S-19500
- 2.0A operation at $T_A=55^\circ\text{C}$ 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-15
(DO-204AC)**



Mechanical Data

Case:	JEDEC DO-204AC(DO-15) 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:	0.015 ounces, 0.4 gram

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

Symbol	Description	GP20A	GP20B	GP20D	GP20G	GP20J	GP20K	GP20M	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	2.0							A	0.375" (9.5mm) lead length(Fig.1)
I_{FSM}	Peak Forward Surge Current	65							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

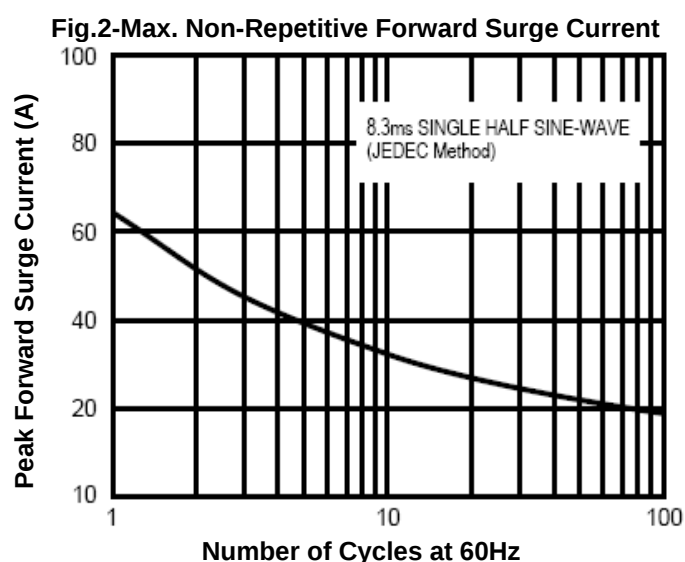
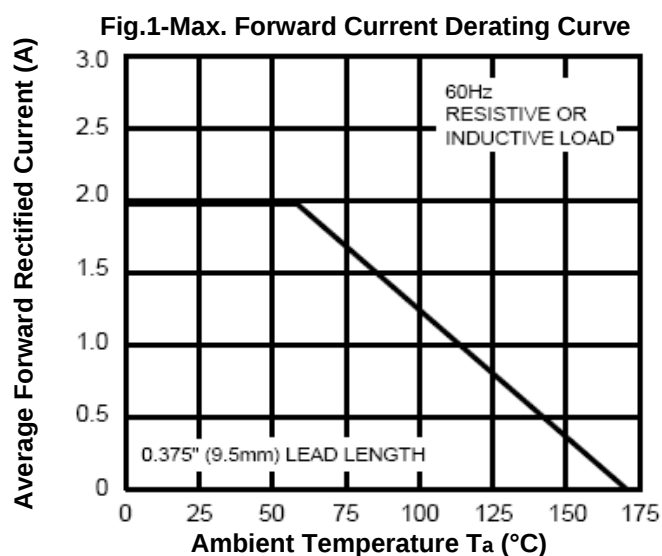
2.0A Sintered Glass Passivated Rectifier (SGP®)

GP20A – GP20M

Symbol	Description	GP20A	GP20B	GP20D	GP20G	GP20J	GP20K	GP20M	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage	1.0							V	I _F =2.0 A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5							μA	T _A =25° C
		30								T _A =125° C
		80								T _A =150° C
C _J	Typical Junction Capacitance	25							pF	V _R =4V, f=1MHz
R _{thJA} R _{thJL}	Typical Thermal Resistance	35 15							°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



2.0A Sintered Glass Passivated Rectifier (SGP[®])

GP20A – GP20M

Fig.3- Typical Forward Characteristics

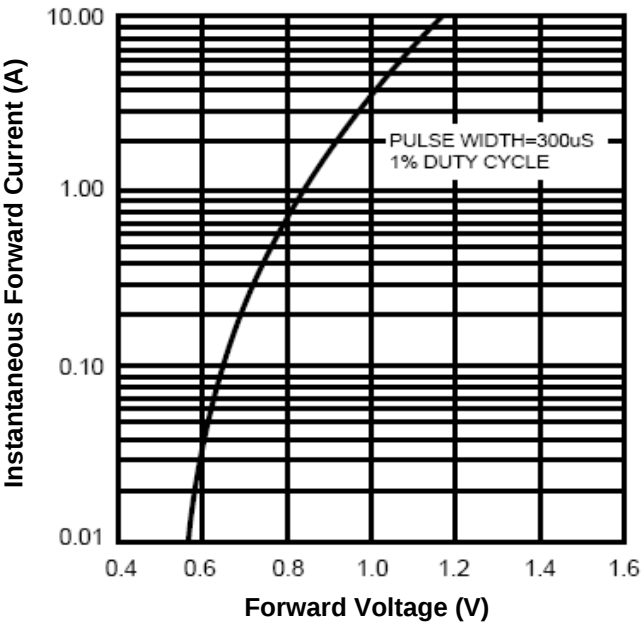


Fig.4-Typical Reverse Characteristics

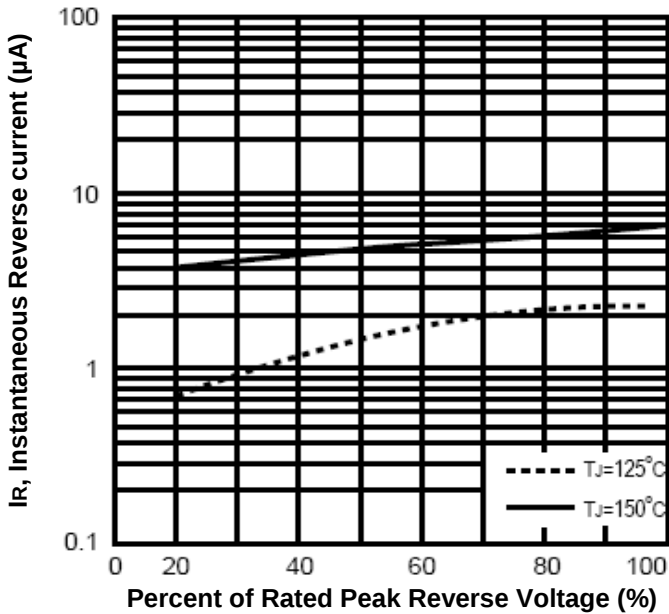
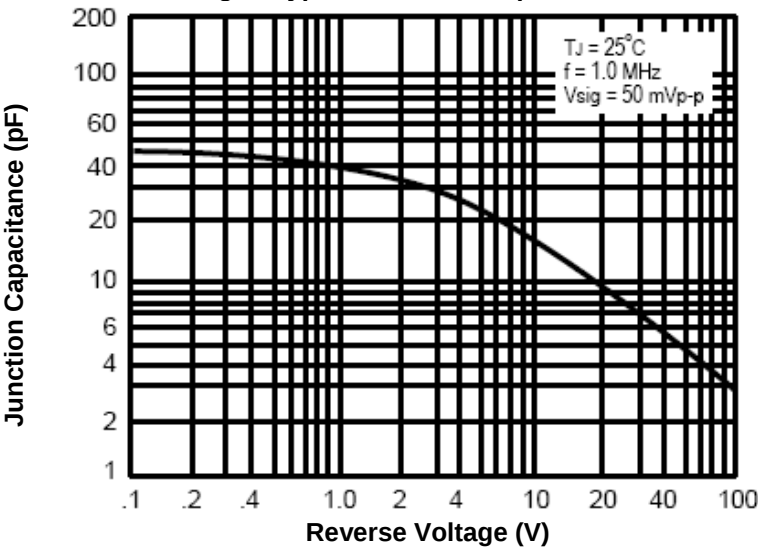


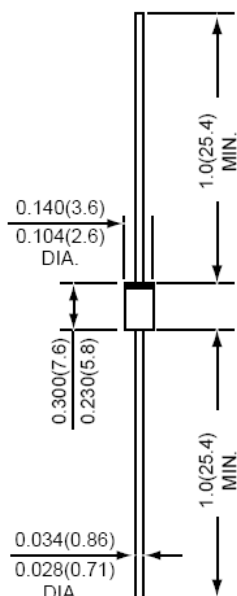
Fig.5- Typical Junction Capacitance



2.0A Sintered Glass Passivated Rectifier (SGP®)

GP20A - GP20M

Dimensions in inches (mm)



DO-15
(DO-204AC)

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