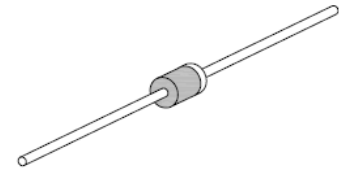


1.0A Sintered Glass Passivated Rectifier

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	GP10Q	GP10V	GP10Y	GP10Z	GP10MM	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	1200	1400	1600	1800	2000	V	
V_{RMS}	Maximum RMS Voltage	840	980	1120	1260	1400	V	
V_{DC}	Maximum DC Blocking Voltage	1200	1400	1600	1800	2000	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)

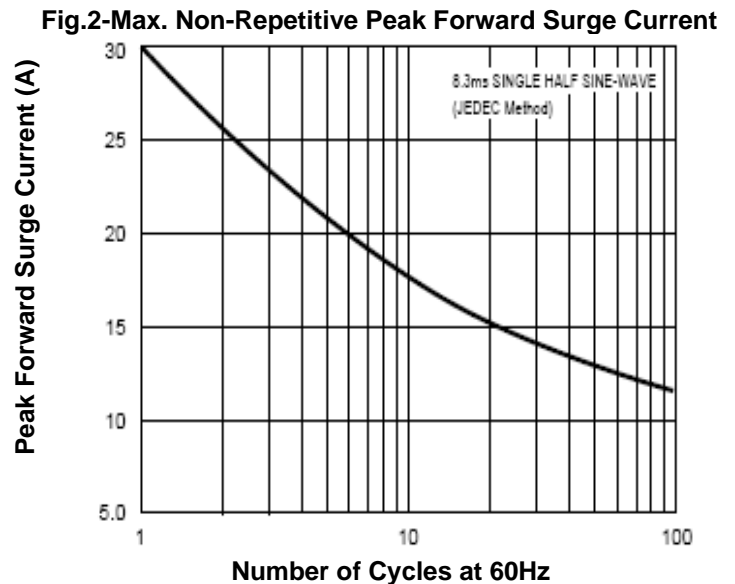
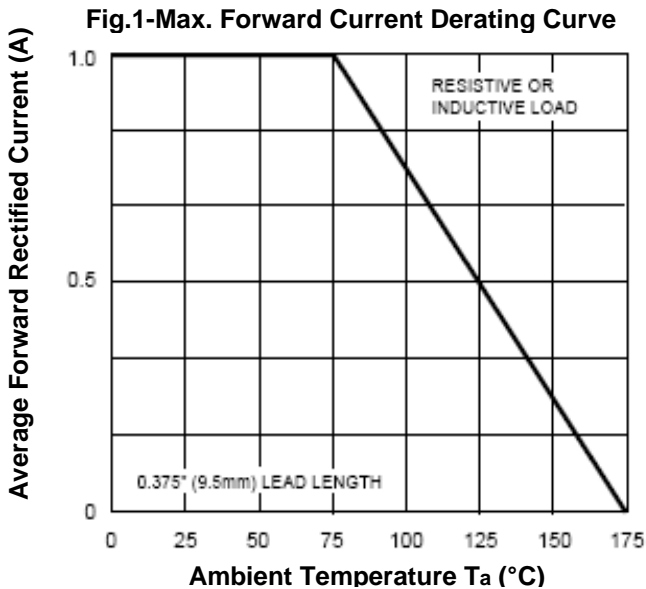
1.0A Sintered Glass Passivated Rectifier

GP10Q - GP10MM

Symbol	Description	GP10Q	GP10V	GP10Y	GP10Z	GP10MM	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage	1.25			2.0		V	IF=1.0 A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5					μA	TA=25° C
		50						TA=100° C
C_J	Typical Junction Capacitance	10					pF	VR=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

GP10Q - GP10MM

Fig.3- Typical Instantaneous Forward Characteristics

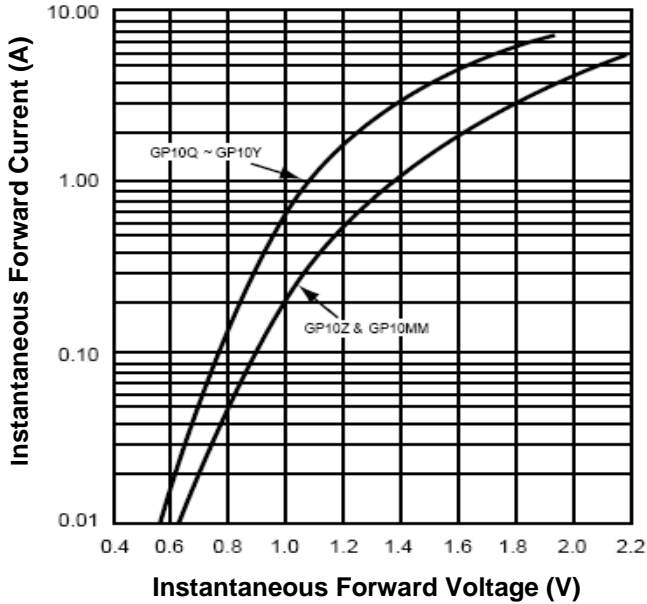


Fig.4-Typical Reverse Characteristics

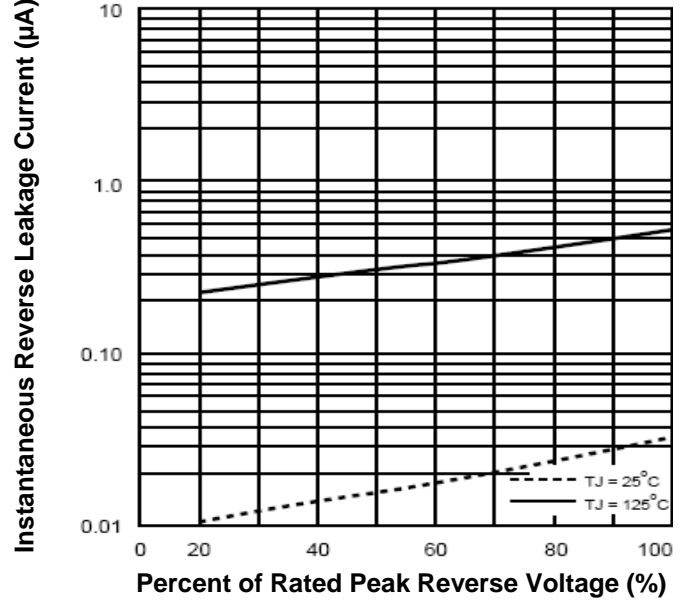
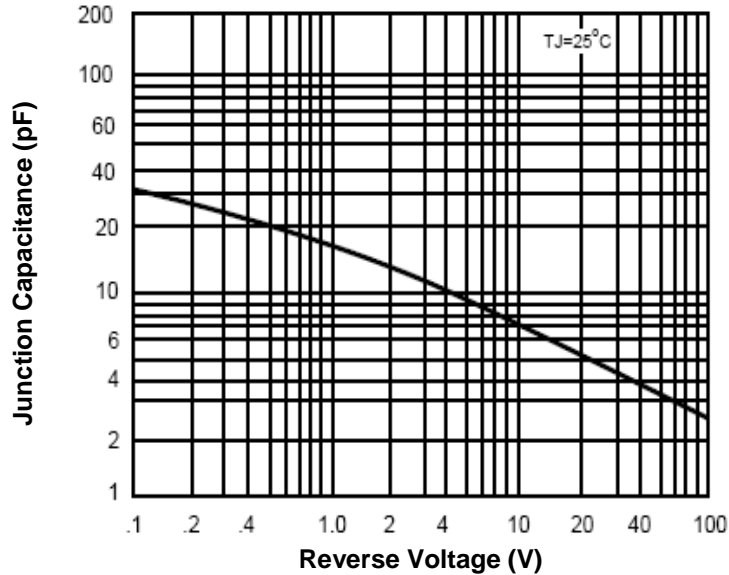


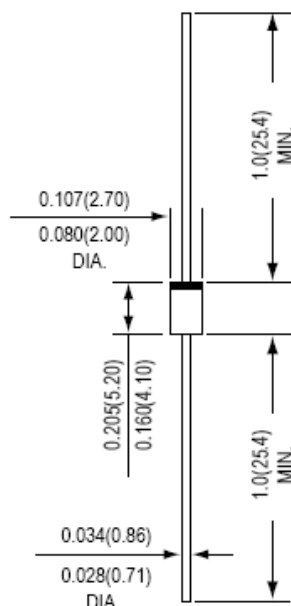
Fig.5- Typical Junction Capacitance



1.0A Sintered Glass Passivated Rectifier

GP10Q - GP10MM

Dimensions in inches (mm)



DO-41
(DO-204AL)

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