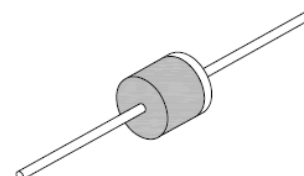


6.0A Sintered Glass Passivated Rectifier

Features

- Sintered glass passivated (SGP) rectifier chip
- Capable of meeting environmental standards of MIL-S-19500
- 6.0A 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



**P-600
(T6L)**



Mechanical Data

Case:	JEDEC P-600 (T6L) 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:	0.07 ounces, 2.1 grams

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

Symbol	Description	GP60 AL	GP60 BL	GP60 DL	GP60 GL	GP60 JL	GP60 KL	GP60 ML	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
IF(AV)	Maximum Average Forward Rectified Current	6.0							A	0.375" (9.5mm) lead length(Fig.1)
IFSM	Peak Forward Surge Current	250							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

6.0A Sintered Glass Passivated Rectifier

GP60AL -GP60ML

Symbol	Description	GP60 AL	GP60 BL	GP60 DL	GP60 GL	GP60 JL	GP60 KL	GP60 ML	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage	1.0							V	I _F =6.0 A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5							μA	T _A =25° C
		50								T _A =125° C
C _J	Typical Junction Capacitance	100							pF	V _R =4V, f=1MHz
T _J	Operating Temperature range	-65 to +175							° C	
T _{STG}	Storage Temperature Range	-65 to +175								

Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

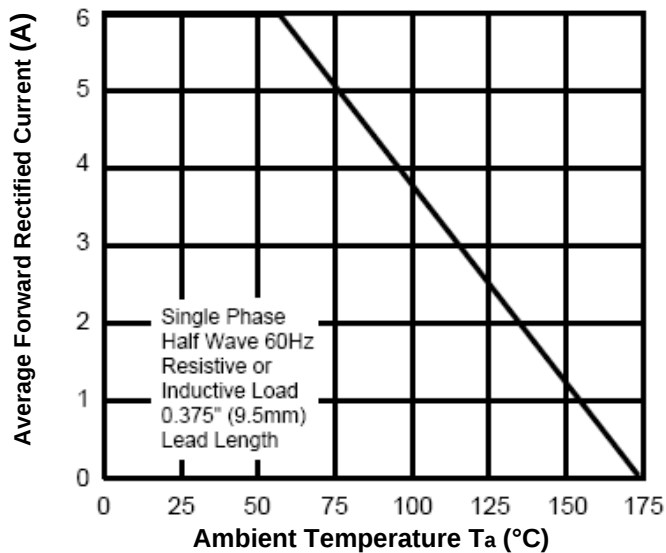
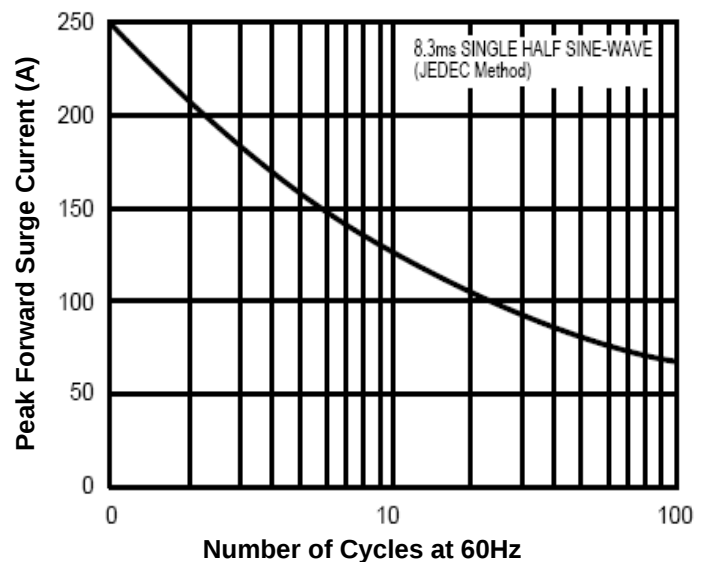


Fig.2-Max. Non-Repetitive Forward Surge Current



6.0A Sintered Glass Passivated Rectifier

GP60AL -GP60ML

Fig.3- Typical Forward Characteristics

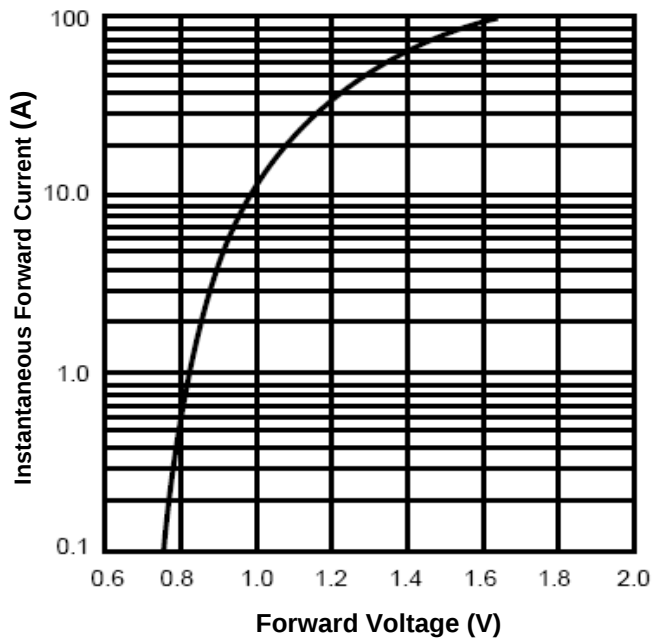


Fig.4-Typical Reverse Characteristics

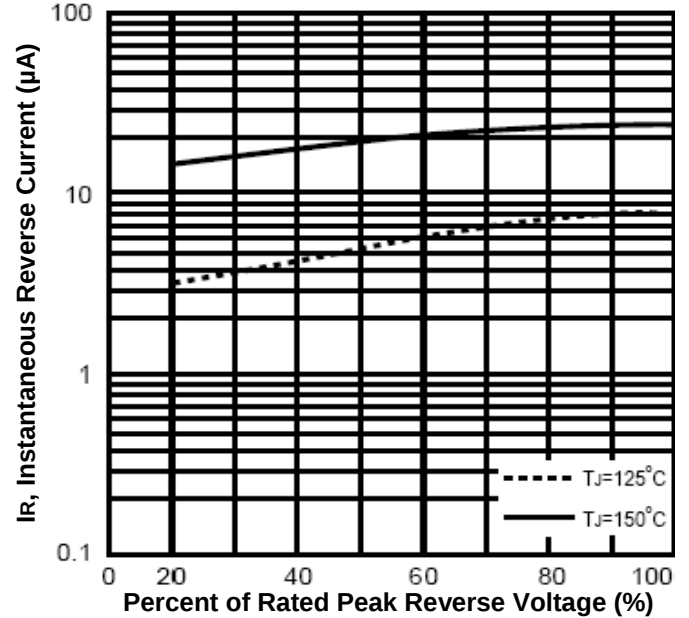
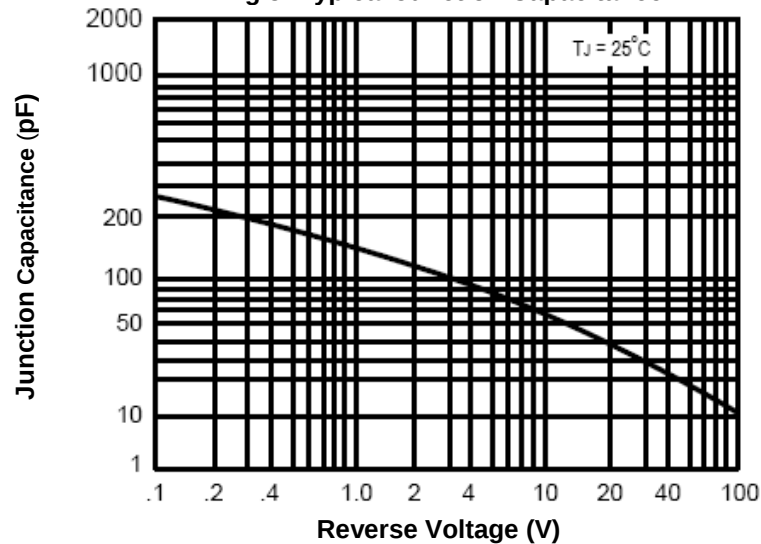


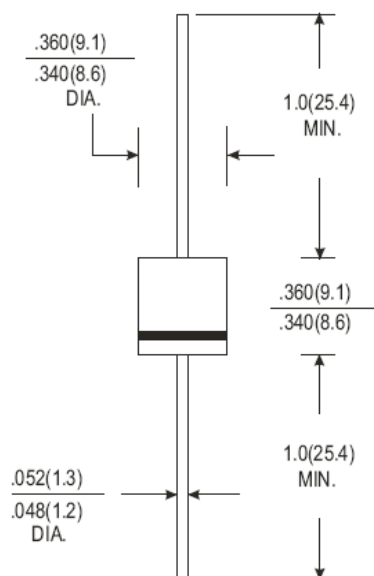
Fig.5- Typical Junction Capacitance



6.0A Sintered Glass Passivated Rectifier

GP60AL -GP60ML

Dimensions in inches (mm)



**P-600
(T6L)**

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