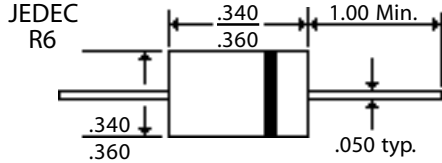
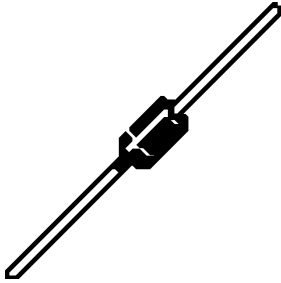


Description

Mechanical Dimensions

FG601 ... 07 Series



Mechanical Data

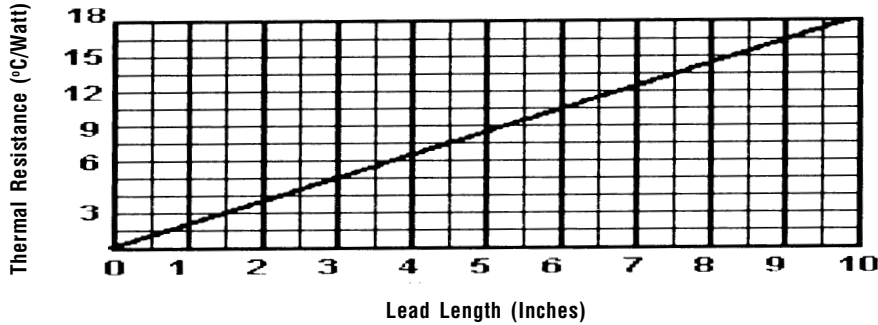
- Device Weight—2.04g
- Die—0.009g—0.45%
- Epoxy—0.90g—44.15%
- Wire Lead—1.132g—55.4%

Features

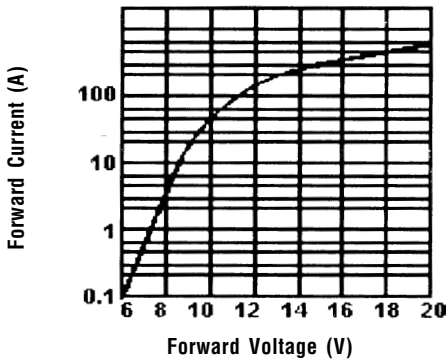
- LOW COST LOW LEAKAGE
- ELECTRICAL CHARACTERISTIC EQUIVALENT G175X SERIES
- DIFFUSED JUNCTION SURFACE METAL PLATED DOUBLE NICKEL
- MEETS UL SPECIFICATION 94V-0

FG601 ... 07 Series								Units
Maximum Ratings	FG601	FG602	FG603	FG604	FG605	FG606	FG607	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 60^\circ\text{C}$ (Note 3)	.....			6.0	.....			Amps
Non-Repetitive Peak Forward Surge Current... I_{PSM} @ Rated Current & Temp	.....			400	.....			Amps
Operating & Storage Temperature Range... T_j, T_{STRG}	.....			-65 to 175	.....			$^\circ\text{C}$
Electrical Characteristics								
Maximum Forward Voltage @ 6.0A... V_f	.....			1.0	.....			Volts
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage	.....			10	.....			μAmps
	.....			100	.....			μAmps
Maximum Full Load Reverse Current... I_{RL}	.....			50	.....			μAmps
Typical Junction Capacitance... C_j (Note 1)	.....			100	.....			pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	.....			10	.....			$^\circ\text{C} / \text{W}$

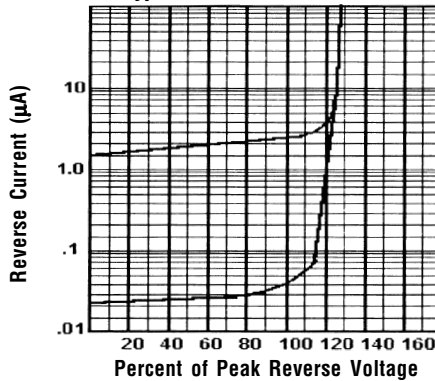
Typical Thermal Resistance vs. Lead Length



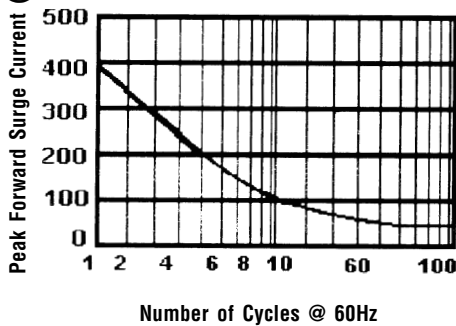
Typical Forward Characteristics



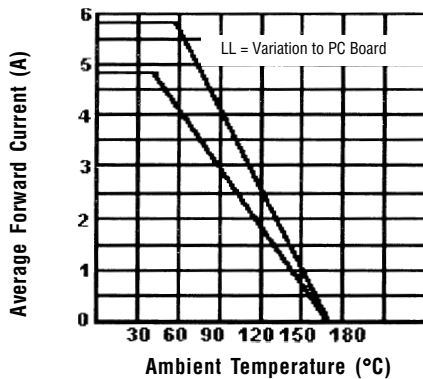
Typical Reverse Characteristics



Maximim Non-Repetitive Surge Current



Forward Current Derating Curve



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 Hz Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance Junction to Ambient, Jedec Method.
 3. .375", (9.5mm) lead lengths.