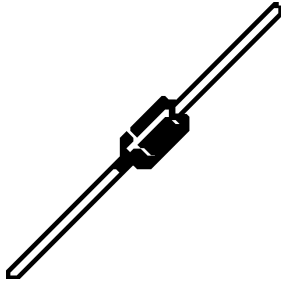


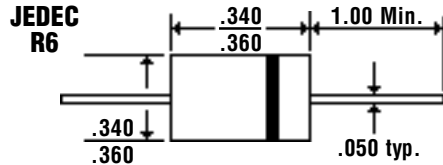
6.0 Amp MINIATURE PLASTIC SILICON RECTIFIERS

FR6A01 . . . 07 Series

Description



Mechanical Dimensions

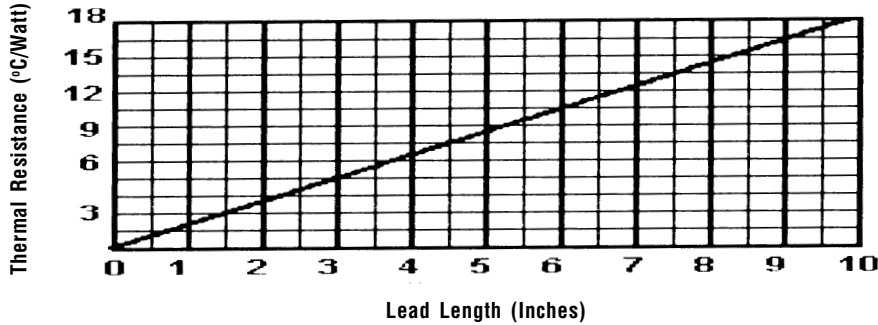


Features

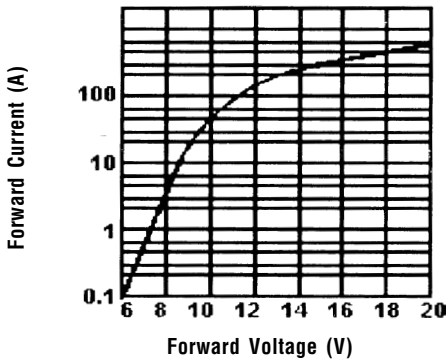
- **LOW COST**
- **LOW LEAKAGE**
- **DIFFUSED JUNCTION**
- **MEETS UL SPECIFICATION 94V-0**

	FR6A01 . . . 07 Series							Units
Maximum Ratings	FR6A01	FR6A02	FR6A03	FR6A04	FR6A05	FR6A06	FR6A07	
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_{FSM} @ 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_R				50				μAmps
Typical Junction Capacitance... C_J (Note 1)				100				pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)				10				$^\circ\text{C} / \text{W}$

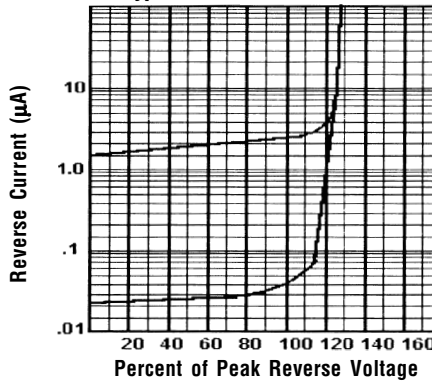
Typical Thermal Resistance vs. Lead Length



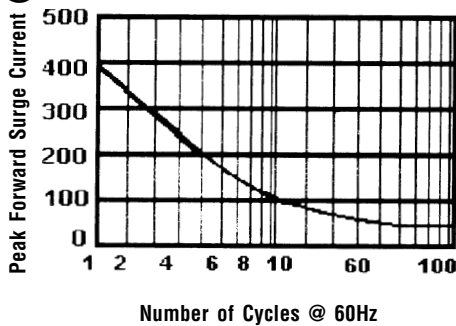
Typical Forward Characteristics



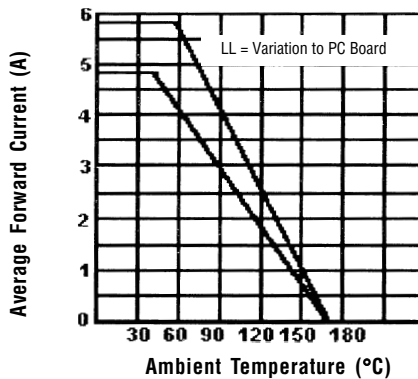
Typical Reverse Characteristics



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.