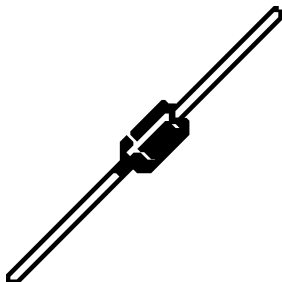


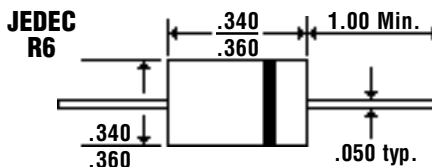
6.0 Amp MINIATURE PLASTIC SILICON RECTIFIERS

FR6A01 . . . 07 Series

Description



Mechanical Dimensions

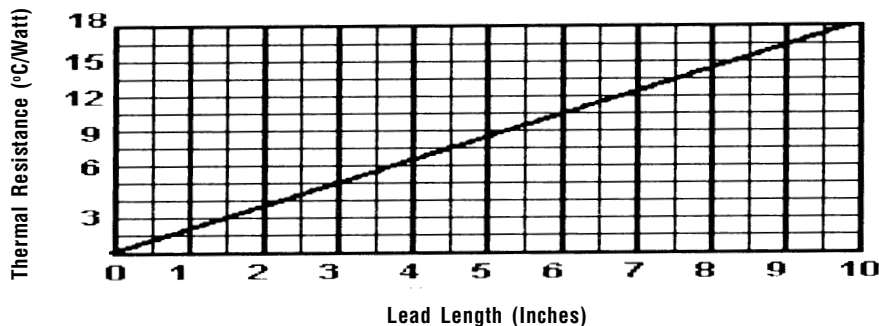


Features

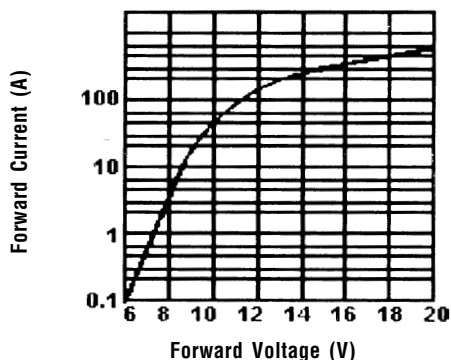
- **LOW COST**
- **LOW LEAKAGE**
- **DIFFUSED JUNCTION**
- **MEETS UL SPECIFICATION 94V-0**

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°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	.....			°C
Electrical Characteristics								
Maximum Forward Voltage @ 6.0A...V _F	.....			1.0	.....			Volts
Maximum DC Reverse Current...I _R @ 25°C	.....			10	.....			μAmps
@ Rated DC Blocking Voltage @ 100°C	.....			100	.....			μAmps
Maximum Full Load Reverse Current...I _R	.....			50	.....			μAmps
Typical Junction Capacitance...C _J (Note 1)	.....			100	.....			pF
Typical Thermal Resistance...R _{θJA} (Note 2)	.....			10	.....			°C / W

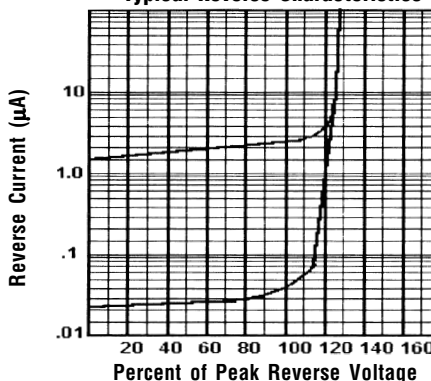
Typical Thermal Resistance vs. Lead Length



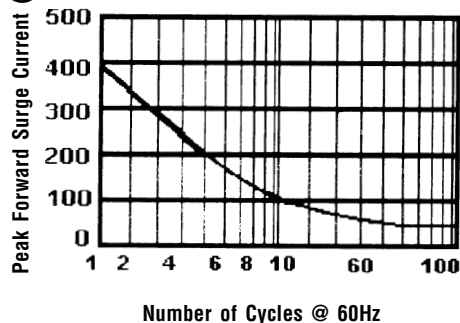
Typical Forward Characteristics



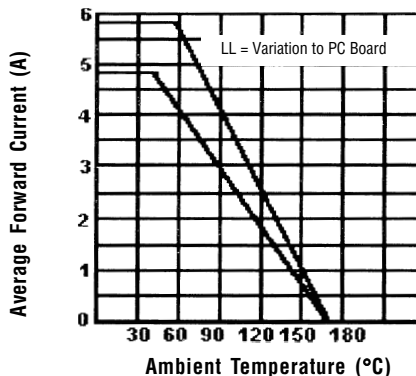
Typical Reverse Characteristics



Maximum 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.