

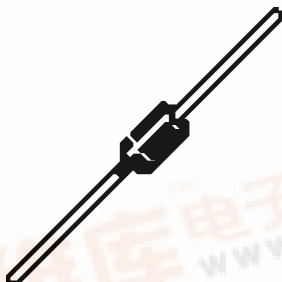


Data Sheet

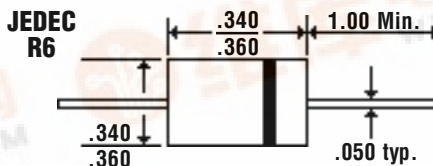
6.0 Amp MINIATURE PLASTIC SILICON RECTIFIERS

FR6A01 . . . 07 Series

Description



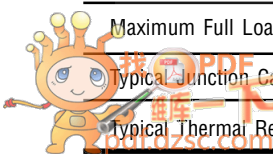
Mechanical Dimensions



Features

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

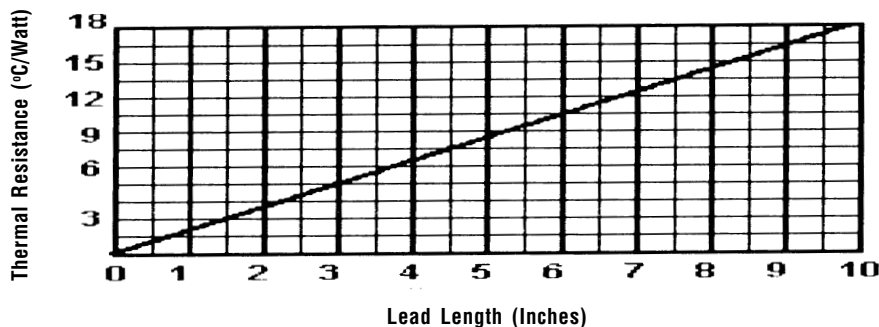
FR6A01 . . . 07 Series								Units	
Maximum Ratings	FR6A01	FR6A02	FR6A03	FR6A04	FR6A05	FR6A06	FR6A07		
Peak Repetitive Reverse Voltage...V _{RRM}	50	100	200	400	600	800	1000	Volts	
RMS Reverse Voltage...V _{R(rms)}	35	70	140	280	420	560	700	Volts	
DC Blocking Voltage...V _{DC}	50	100	200	400	600	800	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 @ Rated DC Blocking Voltage	@ 25°C				10				μAmps
	@ 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	



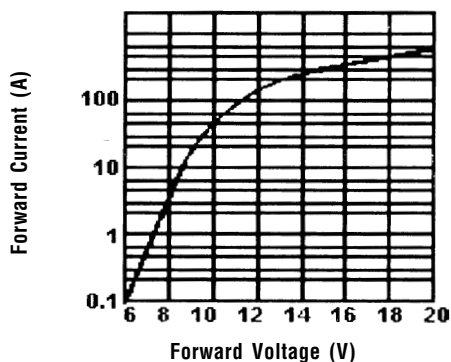
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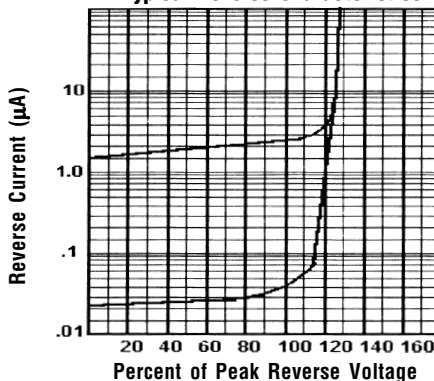
Typical Thermal Resistance vs. Lead Length



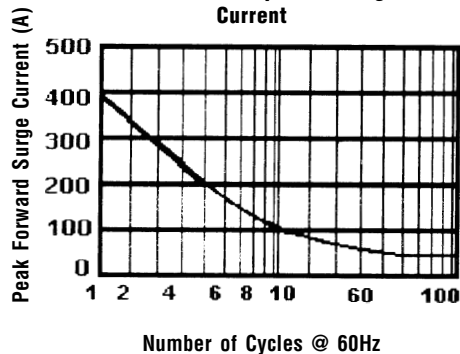
Typical Forward Characteristics



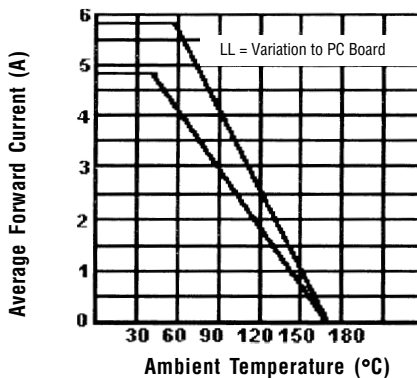
Typical Reverse Characteristics



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.