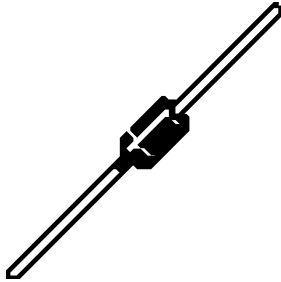


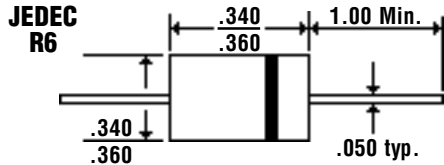
10 Amp MINIATURE PLASTIC SILICON RECTIFIERS

FR10A01 . . . 07 Series

Description



Mechanical Dimensions



Features

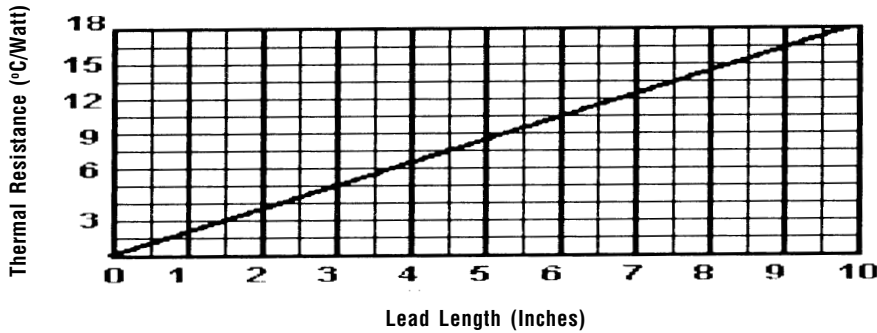
- LOW COST
- LOW LEAKAGE
- DIFFUSED JUNCTION
- MEETS UL SPECIFICATION 94V-0

FR10A01 . . . 07 Series								Units	
Maximum Ratings		FR10A01	FR10A02	FR10A03	FR10A04	FR10A05	FR10A06	FR10A07	
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)				10				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM}	@ Rated Current & Temp				600				Amps
Operating & Storage Temperature Range... T_J, T_{STRG}					-65 to 175				$^\circ\text{C}$
Electrical Characteristics									
Maximum Forward Voltage @ 10A... V_F					1.0				Volts
Maximum DC Reverse Current... I_R	25 $^\circ\text{C}$				10				μAmps
	100 $^\circ\text{C}$				100				μAmps
Maximum Full Load Reverse Current... I_R					25				μAmps
Typical Junction Capacitance... C_J (Note 1)					100				pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)					10				$^\circ\text{C} / \text{W}$

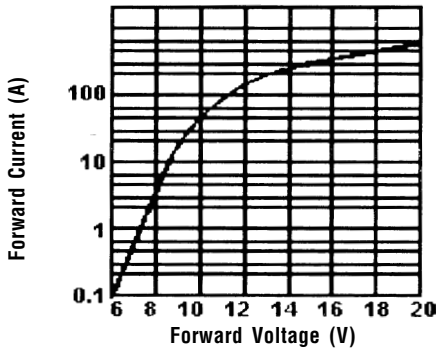
10 Amp MINIATURE PLASTIC SILICON RECTIFIERS

FR10A01 . . . 07 Series

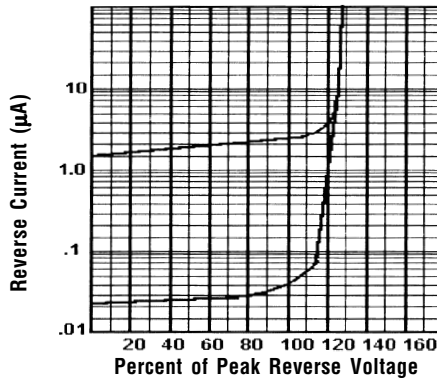
Typical Thermal Resistance vs. Lead Length



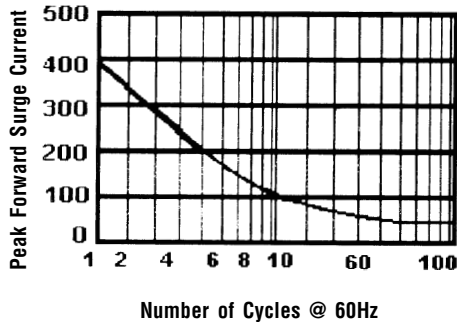
Typical Forward Characteristics



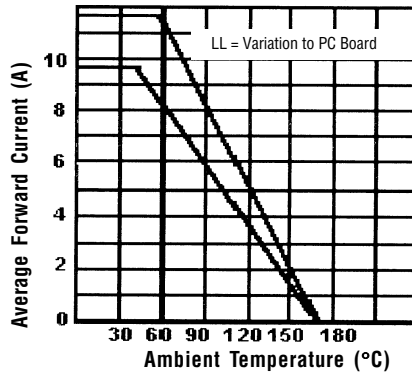
Typical Reverse Characteristics



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.