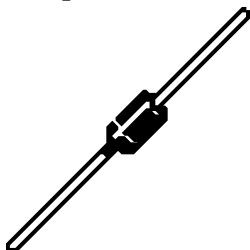


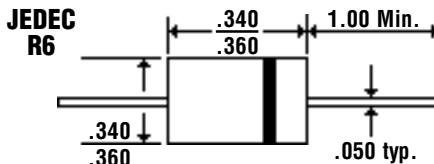
6.0 Amp FAST RECOVERY PLASTIC RECTIFIERS

FR60 . . . 610 Series

Description



Mechanical Dimensions

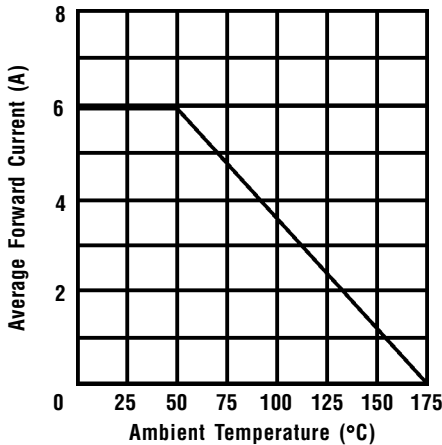


Features

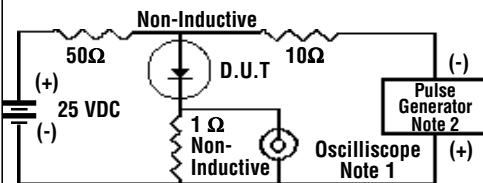
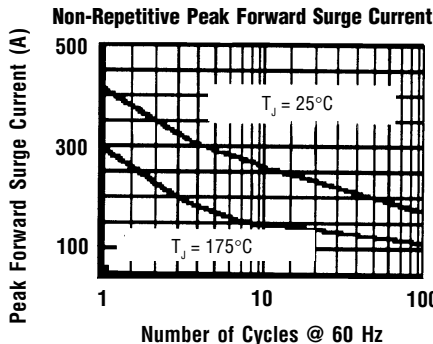
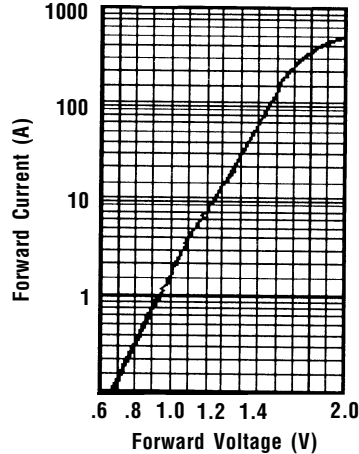
- FAST SWITCHING FOR HIGH EFFICIENCY
- HIGH SURGE CAPABILITY
- 6.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY
- MEETS UL SPECIFICATION 94V-0

FR60 . . . 610 Series								Units
Maximum Ratings	FR60	FR61	FR62	FR64	FR66	FR68	FR610	
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... $I_{F(av)}$ $T_A = 55^\circ\text{C}$				6.0				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp				300				Amps
Operating & Storage Temperature Range... T_J, T_{STRG}				-65 to 175				$^\circ\text{C}$
Electrical Characteristics								
Maximum Forward Voltage @ 6.0A... V_F				1.3				Volts
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage				10				μAmps
				150				μAmps
Typical Junction Capacitance... C_j (Note 1)				100				pF
Maximum Reverse Recovery Time... t_{RR}	150	150	150	150	250	500	500	ns

Forward Current Derating Curve

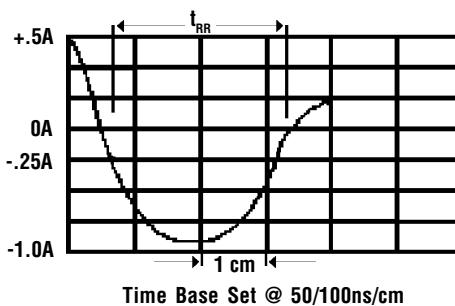


Typical Instantaneous Forward Characteristics



- Notes: 1. Rise Time = 7 ns Max.
Impedance = 1 megohm, 22 pF
2. Rise Time = 10 ns Max.
Source Impedance = 50 Ohms

Reverse Recovery Characteristics



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.