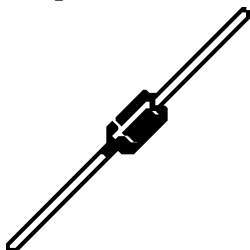


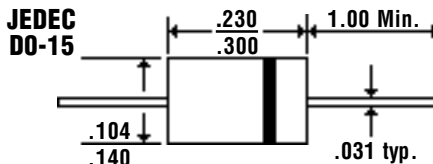
1.5 Amp FAST RECOVERY PLASTIC RECTIFIERS

FR150 . . . 1510 Series

Description



Mechanical Dimensions



Features

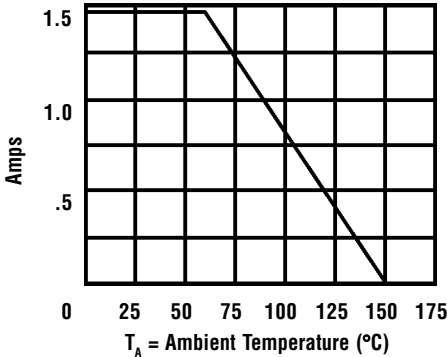
- FAST SWITCHING FOR HIGH EFFICIENCY
- HIGH SURGE CAPABILITY
- 1.5 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	FR150 . . . 1510 Series								Units
Maximum Ratings	FR150	FR151	FR152	FR154	FR156	FR158	FR1510		
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... $I_{F(av)}$ $T_A = 55^\circ\text{C}$ (Note 3)				1.5				Amps	
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp				50				Amps	
Forward Voltage @ 1.5A... V_f				1.3				Volts	
DC Reverse Current... I_R @ 25°C @ Rated DC Blocking Voltage @ 100°C				5.0				μAmps	
				100				μAmps	
Typical Junction Capacitance... C_J (Note 1)				1.5				pF	
Typical Reverse Recovery Time... t_{RR}	150	150	150	150	250	500	500	nS	
Operating & Storage Temperature Range... T_J, T_{STRG}								-65 to 150	°C

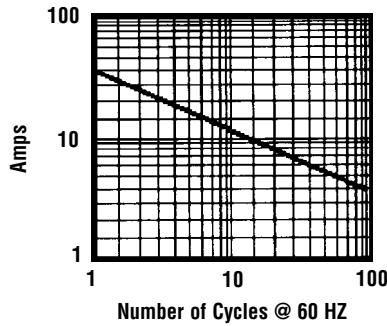
1.5 Amp FAST RECOVERY PLASTIC RECTIFIERS

FR150... 1510 Series

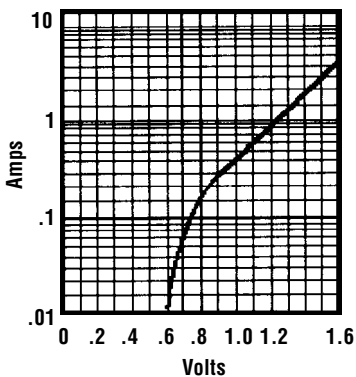
Forward Current Derating Curve



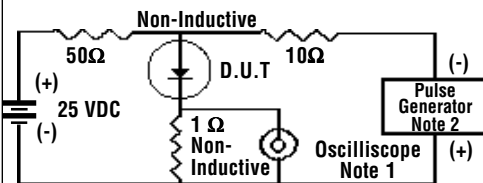
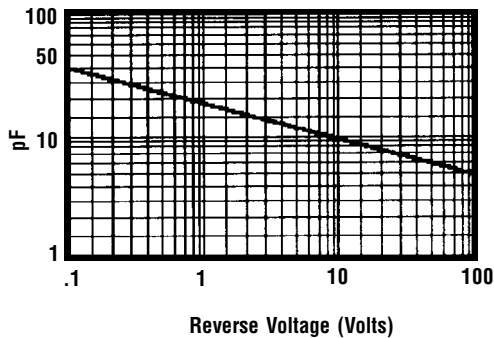
Non-Repetitive Peak Forward Surge Current



Typical Instantaneous Forward Characteristics

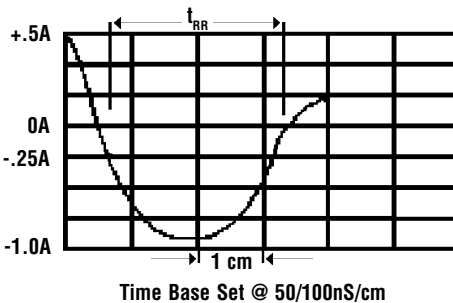


Typical Junction Capacitance



- 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.
 3. When Mounted to heat sink, from body.