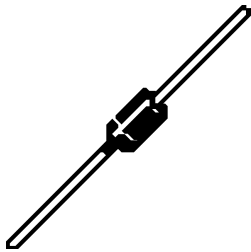


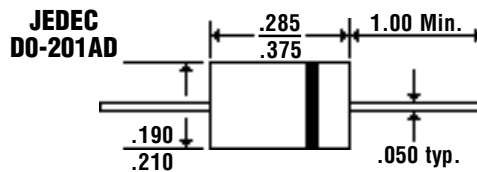
**3.0 Amp FAST RECOVERY
PLASTIC RECTIFIERS**

FR30 . . . 310 Series

Description



Mechanical Dimensions



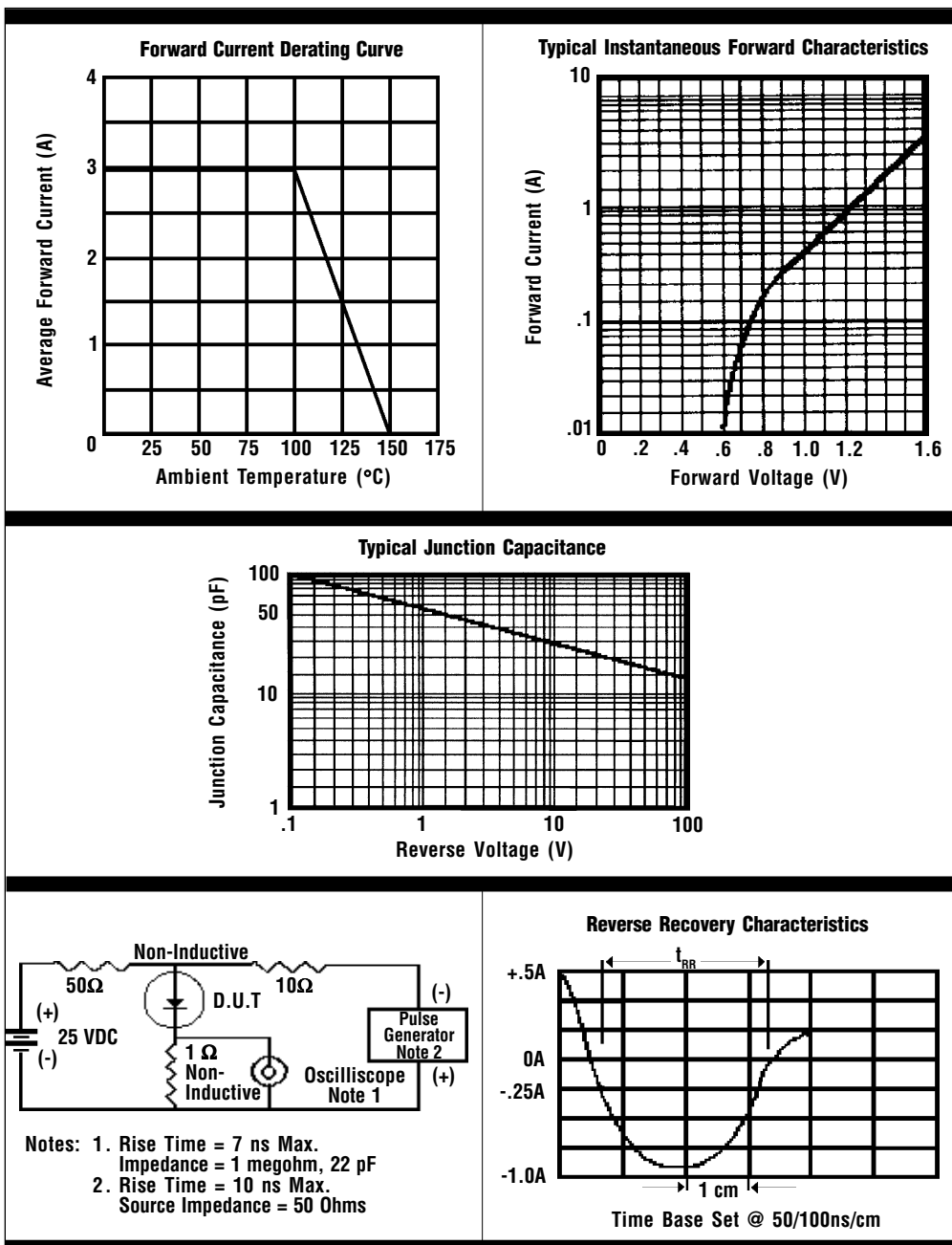
Features

- FAST SWITCHING FOR HIGH EFFICIENCY
- HIGH SURGE CAPABILITY
- 3.0 AMP OPERATION @ $T_A = 105^\circ\text{C}$, WITH NO THERMAL RUNAWAY
- MEETS UL SPECIFICATION 94V-0

FR30 . . . 310 Series								Units
Maximum Ratings	FR30	FR31	FR32	FR34	FR36	FR38	FR310	
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... $I_{F(av)}$ $T_A = 55^\circ\text{C}$	.....			3.0	.....			Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp	.....			200	.....			Amps
Operating & Storage Temperature Range... T_J, T_{STRG}	.....			-65 to 150	.....			$^\circ\text{C}$
Electrical Characteristics								
Maximum Forward Voltage @ 3.0A... V_F	.....			1.3	.....			Volts
Maximum DC Reverse Current... I_r @ Rated DC Blocking Voltage	.....			50	.....			μAmps
	.....			100	.....			μAmps
Typical Junction Capacitance... C_j (Note 1)	.....			60	.....			pF
Maximum Reverse Recovery Time... t_{RR}	150	150	150	150	250	500	500	ns

3.0 Amp FAST RECOVERY PLASTIC RECTIFIERS

FR30 . . . 310 Series



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%.