

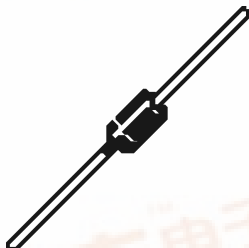


Data Sheet

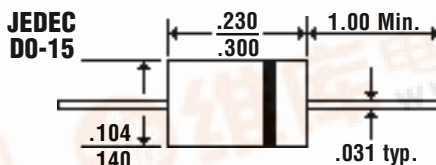
2.0 Amp FAST RECOVERY PLASTIC RECTIFIERS

FR20 . . . 210 Series

Description



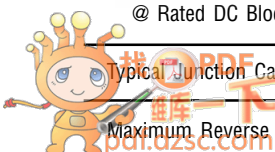
Mechanical Dimensions



Features

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

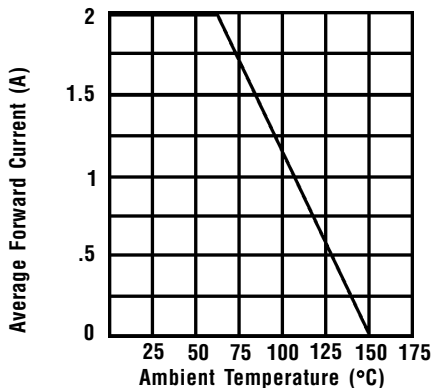
FR20 . . . 210 Series								Units
Maximum Ratings	FR20	FR21	FR22	FR24	FR26	FR28	FR210	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 55^{\circ}C$	2.0							Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Current & Temp	60							Amps
Operating & Storage Temperature Range... T_J , T_{STRG}	-65 to 150							$^{\circ}C$
Electrical Characteristics								
Maximum Forward Voltage @ 2.0A... V_F	1.3							Volts
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage	5.0 10							μA μA
Typical Junction Capacitance... C_J (Note 1)	25							pF
Maximum Reverse Recovery Time... t_{RR}	150	150	150	150	250	500	500	ns



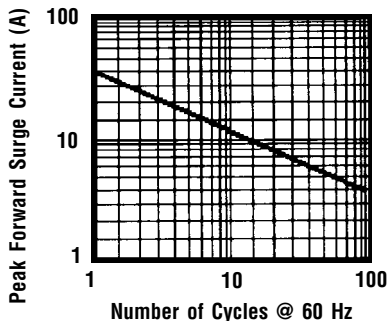
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FR20 ... 210 Series

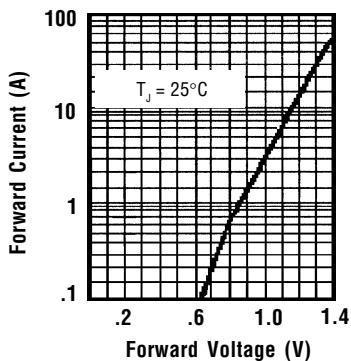
Forward Current Derating Curve



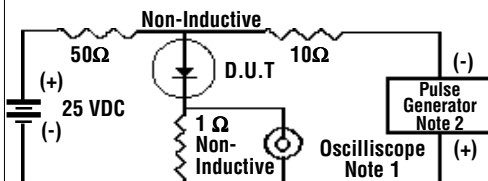
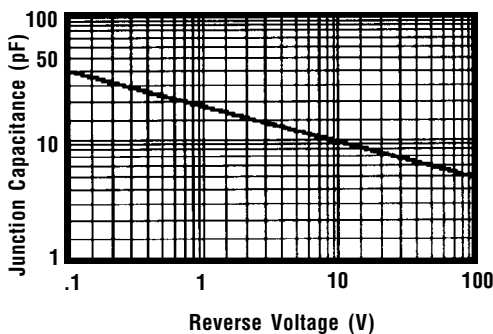
**Non-Repetitive
Peak Forward Surge Current**



Typical Instantaneous Forward Characteristics

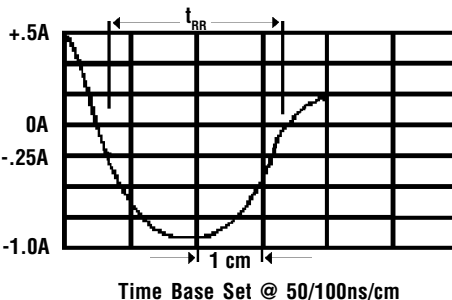


Typical Junction Capacitance



- 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.