

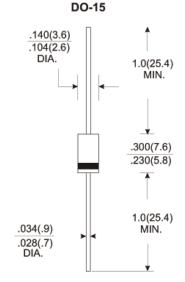
Fast Recovery Rectifiers FR201 THRU FR207 50 to 1000 V 2 A

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

MECHANICAL DATA

- · Case: Molded plastic
- Epoxy: UL 94V-O rate flame retardant
- Lead: Axial leads, solderable per MIL- STD-202, Method 208 guaranteed
- · Polarity: Color band denotes cathode end
- High temperature soldering guaranteed: 250°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- Mounting position: AnyWeight: 0.39 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, Resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbols	FR201	FR202	FR203	FR204	FR205	FR206	FR207	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current. 375" (9.5mm) Lead Length @ T _A =55 °C	I _(AV)	2.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	55							Amp
Maximum instantaneous Forward Voltage at @2.0A	V _F	1.3							Volts
Maximum Reverse Current @ T_A =25°C at Rated DC Blocking Voltage @ T_A =125°C	I _R	5.0 100							uАmp
Maximum Reverse Recovery Time (Note 1)	TRR	150 250 500					00	nS	
Typical Junction Capacitance (Note 2)	CJ	25							pF
Operating and Storage Temperature Range	T _J T _{STG}	-55 to +150							$^{\circ}$

NOTES:

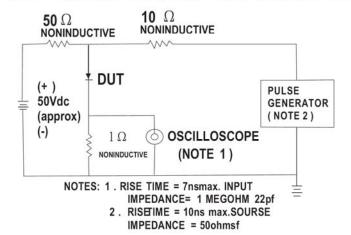
- 1. Reverse Recovery Test Conditions: IF =0.5A, IR =1.0A, IRR =0.25A
- 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.



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RATINGS AND CHARACTERISTIC CURVES (FR201GTHRU FR207)

FIG .1 -REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



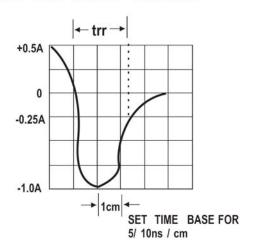
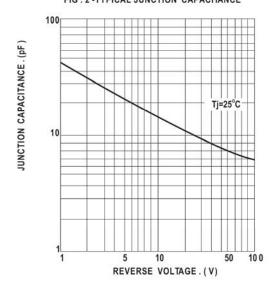


FIG. 2-TYPICAL JUNCTION CAPACITANCE





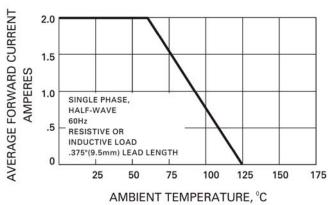
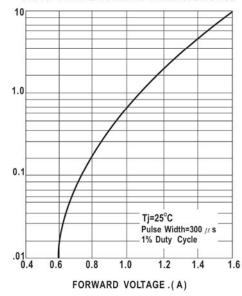
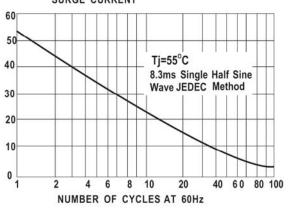


FIG. 3-TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD CURRENT.(A)

FIG. 5 - MAXIMUM NON - REPETITIVE PEAK FORWARD SURGE CURRENT



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