

GLASS PASSIVATED FAST RECOVERY RECTIFIERS

### FR201G-FR207G

50V-1000V

2.0A

#### **FEATURES**

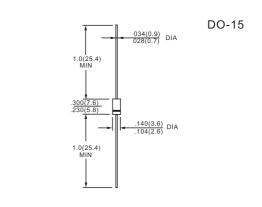
- \* High reliability
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* Glass passivated junction
- \* High switching capability

#### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.38 gram



Ratings 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%.



Dimensions in inches and (millimeters)

# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	FR201G	FR202G	FR203G	FR204G	FR205G	FR206G	FR207G	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current								
.375"(9.5mm) Lead Length at Ta=55℃		2.0						
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		70						Α
Maximum Instantaneous Forward Voltage at 2.0A		1.3					V	
Maximum DC Reverse Current Ta=25°C		5.0						
at Rated DC Blocking Voltage Ta=100℃		100						
Maximum Reverse Recovery Time (Note 1)		15	50		250	50	00	nS
Typical Junction Capacitance (Note 2)		40						
Operating and Storage Temperature Range Тл, Тsтс		-65—+150						

#### NOTES:

- 1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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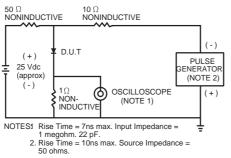
50V-1000V

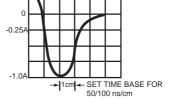
2.0A

## RATING AND CHARACTERISTIC CURVES (FR201G THRU FR207G)

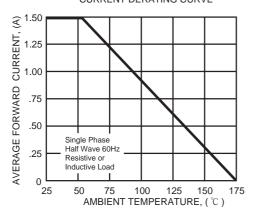
FIG. 1 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

+0.5





# FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE



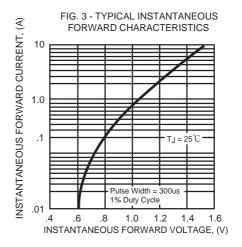


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

