## FR601G THRU FR607G

# GLASS PASSIVATED FAST RECOVERY RECTIFIER

VOLTAGE: 50 TO 1000V CURRENT: 6.0A



#### **FEATURE**

Molded case feature for auto insertion
High Switching Capability
Low leakage current
High surge capability
High temperature soldering guaranteed
250℃ /10sec/0.375" lead length at 5 lbs tension
Glass Passivity chip

### MECHANICAL DATA

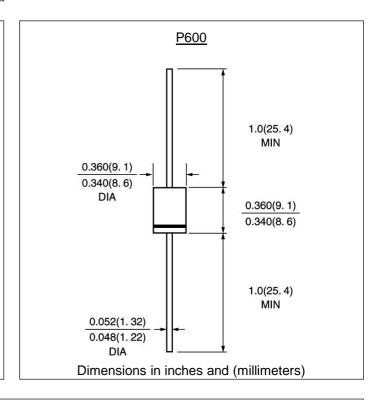
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

Case: Molded with UL-94 Class V-0 recognized Flame

Retardant Epoxy

Polarity: color band denotes cathode

Mounting position: any



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

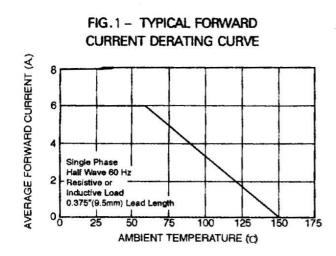
(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25℃, unless otherwise stated)

	SYMBOL	FR 601G	FR 602G	FR 603G	FR 604G	FR 605G	FR 606G	FR 607G	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta =55°C	If(av)	6.0							Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	150							Α
Maximum Instantaneous Forward Voltage at rated forward current	Vf	1.3							V
Maximum full load reverse current full cycle at $T_L = 75$ °C	Ir(av)	30							А
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =125℃	lr	10.0 200.0							A A
Typical Junction Capacitance (Note 1)	Cj	50.0							pF
Maximum Reverse Recovery Time (Note 2)	Trr		15	50		250	50	00	nS
Storage and Operation Junction Temperature	Tstg, Tj	-65 to +150							C

#### Note:

- 1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
- 2. Test Condition If =0.5A, Ir =1.0A, Irr =0.25A

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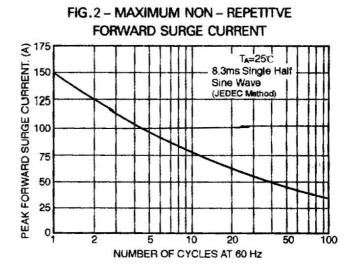
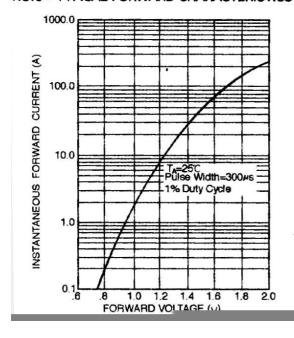
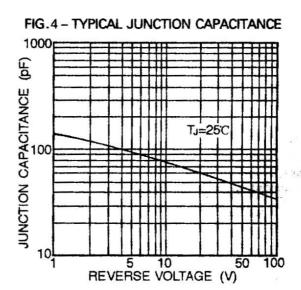


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS





<sup>1</sup> Rev.A4 www.gulfsemi.com