

Fast Recovery Rectifier FR601-G thru FR607-G (RoHS Device)

Voltage Range 50 to 1000 V **Current 6.0 Ampere**

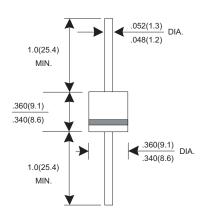
Features

- Fast switching for high efficiency
- * Low forward voltage drop
- High current capability
- ★ Low reverse leakage current
- ★ High surge current capability

Mechanical Data

- Case: Molded plastic P600
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202 method 208
- ★ Polarity:Color band denotes cathode
- Mounting position: Any
- ★ Weight: 2.1 grams

P600



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	FR601 -G	FR602 -G	FR603 -G	FR604 -G	FR605 -G	FR606 -G	FR607 -G	UNIT
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 TL=55°C	IF(AV)	6.0							А
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	IFSM	300							А
Maximum Instantaneous Forward Voltage @ 6.0 A	VF	1.3							V
Maximum DC Reverse Current @Tj=25°C At Rated DC Blocking Voltage @Tj=100°C	lR	5.0 500						uA uA	
Maximum Reverse Recovery Time (Note 1)	Trr	150			250	500		nS	
Typical junction Capacitance (Note 2)	CJ	100							pF
Maximum Thermal Resistance (Note 3)	Røja	55							°CW
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to + 125							°C

(1) Reverse recovery test conditions I_F = 0.5A, I_R = 1.0A, I_T = 0.25A.
(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.
(3) Thermal Resistance junction to lead.

Fast Recovery Rectifier



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RATINGS AND CHARACTERISTIC CURVES FR601-G THRU FR607-G

FIG.1 - FORWARD CURRENT DERATING CURVE

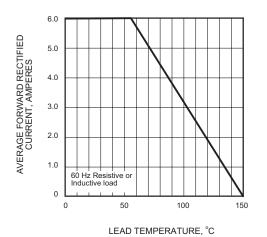


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

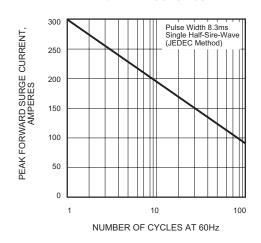


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

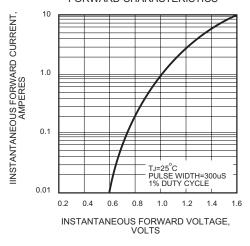


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

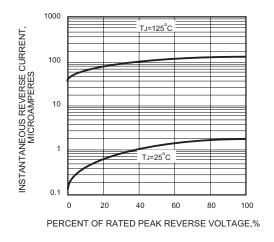
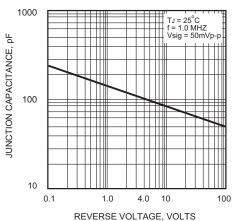


FIG.5 - TYPICAL JUNCTION CAPACITANCE



[&]quot;-G" suffix designates RoHS compliant Version

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