

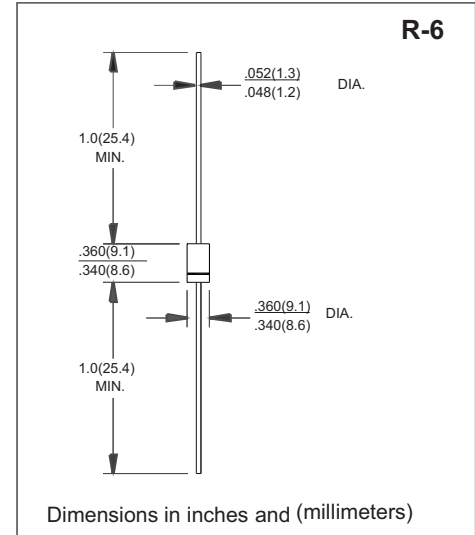
## GLASS PASSIVATED FAST RECOVERY RECTIFIER

### FEATURES

- Fast switching for high efficiency
- Glass passivated chip junction
- High current surge capability
- Low leakage
- High temperature soldering guaranteed  
260°C/10 seconds, 0.375" (9.5mm) lead length at 5 lbs (2.3kg) tension

### MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.07 ounce, 2.0 gram



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified Single Phase, half wave, 60Hz, resistive or inductive load for capacitive load derate current by 20%

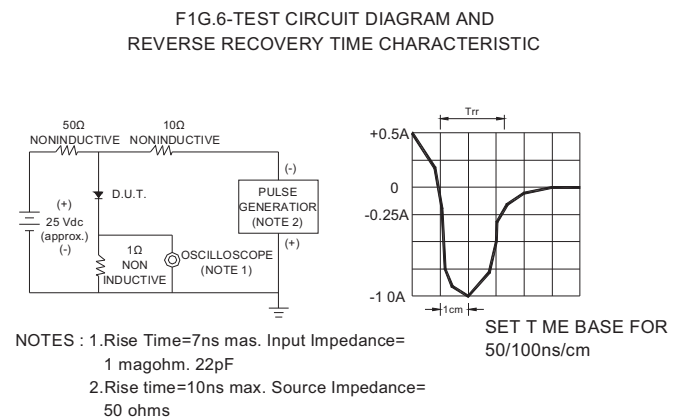
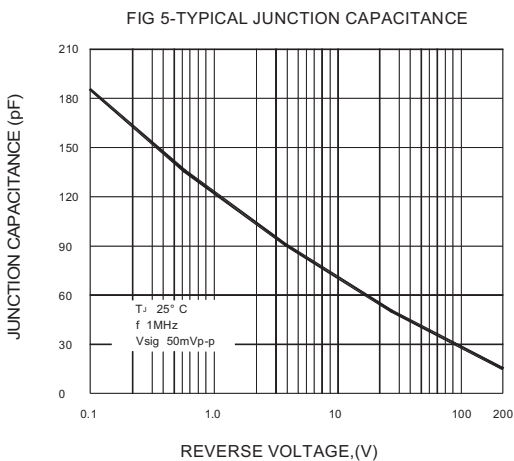
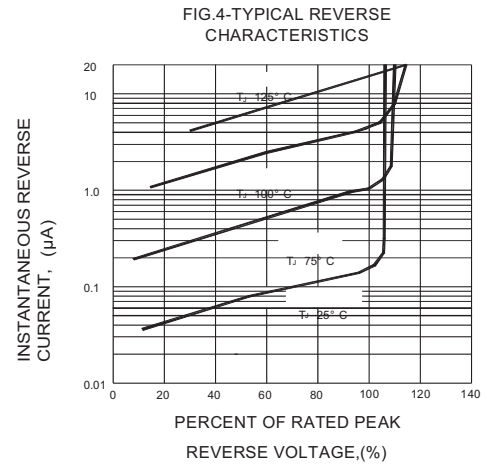
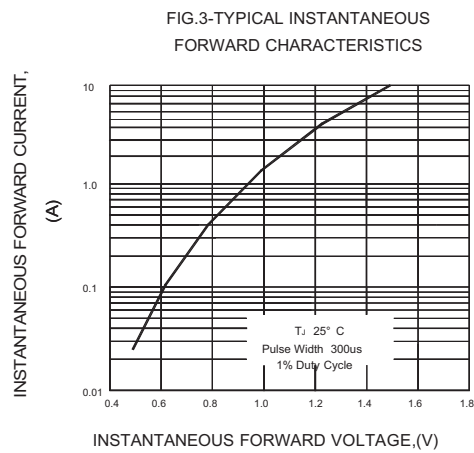
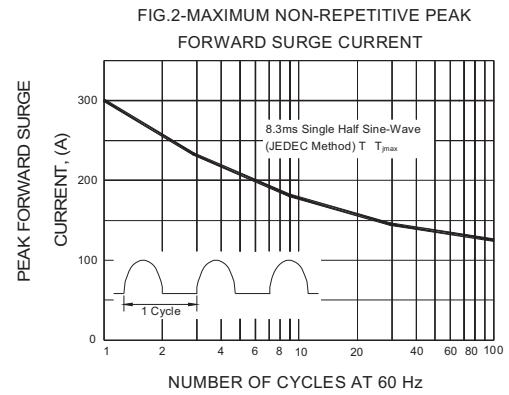
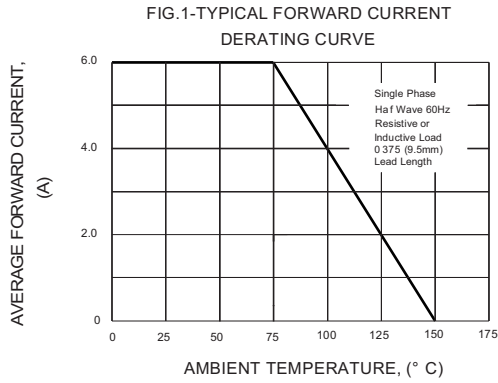
	SYMBOLS	FR 601G	FR 602G	FR 603G	FR 604G	FR 605G	FR 606G	FR 607G	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length at $T_A = 75^\circ C$	$I_{(AV)}$	6.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	300							Amps
Maximum Instantaneous Forward Voltage at 6.0A	$V_F$	1.3							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	$I_R$	$T_A = 25^\circ C$							$\mu A$
		$T_A = 125^\circ C$							
Maximum Reverse Recovery Time (NOTE 3)	$t_{rr}$	150				250	500		nS
Typical Junction Capacitance (NOTE 1)	$C_J$	90							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	10							°C/W
Operating Temperature Range	$T_J$	(-55 to +150)							°C
Storage Temperature Range	$T_{STG}$	(-55 to +150)							°C

#### Notes:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, P.C board mounted.
3. Test conditions:  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{RR} = 0.25A$ .

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### RATING AND CHARACTERISTIC CURVES FR601G - FR607G



#### Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.