

Voltage Range - 50 to 1000 V Forward Current - 6 Ampere

FAST RECOVERY RECTIFIER

FEATURES

- Low cost construction
- Fast switching for high efficiency.
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
 260°C/10 secods/.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

Case: Transfer molded plastic

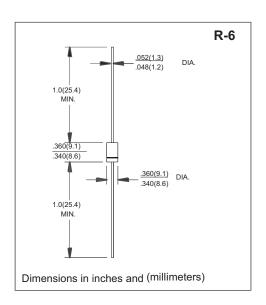
• Epoxy: UL94V-O rate flame retardant

Polarity: Color band denotes cathode end

Lead: Plated axial lead, solderable per MIL-STD-202E method 208C

Mounting position: Any

• Weight: 0.042ounce, 1.19 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified Single Phase, half wave, 60Hz, resistive or inductive load for capacitive load derate current by 20%

		SYMBOLS	FR 601	FR 602	FR 603	FR 604	FR 605	FR 606	FR 607	UNITS
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							Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I_{FSM}	300							Amps
Maximum Instantaneous Forward Voltage @ 6.0A		V_{F}	1.3							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25 °C	I_R	10							μA
	T _A = 100°C	1 _R	500							
Maximum Reverse Recovery Time (Note 3) T _J =25 °C		trr	150 250 500						ns	
Typical Junction Capacitance (Note 1)		C_{J}	150							pF
Typical Thermal Resistance (Note 2)		$R_{ heta JA}$	10							°C/W
Operating Junction Temperature Range		T_{J}	(-55 to +150)							$^{\circ}\!\mathbb{C}$
Storage Temperature Range		T_{STG}	(-55 to +150)							$^{\circ}\!\mathbb{C}$

Notes:

- 1.Measured at 1.0MHz and Applied Reverse Voltage of 4.0Volits.
- 2 Thermal Resistance from junction to Ambient at .375"(9.5mm)lead length, P.C.board mounted.
- 3. Reverse Recovery Test Conditions: If=0.5mA, Ir=1.0mA, Irr=0.25A

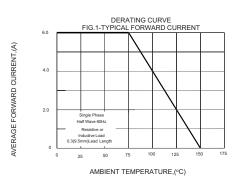
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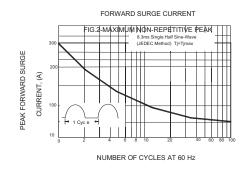


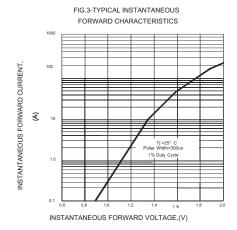
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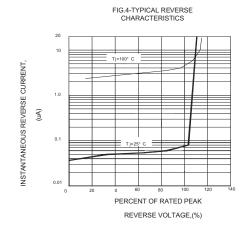
FAST RECOVERY RECTIFIER

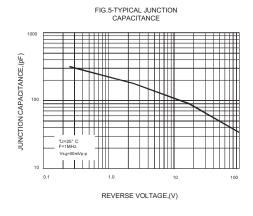
RATING AND CHARACTERISTIC CURVES FR601 - FR607

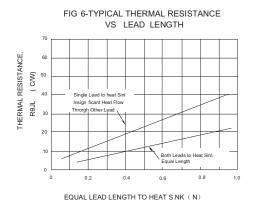












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