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捷多邦，专业PCB打样工厂，24小时加急

FR601 THRU FR607

FAST RECOVERY RECTIFIER

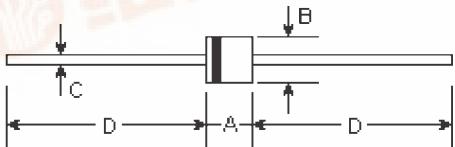
Reverse Voltage - 50 to 1000 Volts

Forward Current - 6.0 Amperes

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Construction utilizes void-free molded plastic technique
- 6.0 ampere operation at $T_A=75^\circ\text{C}$ with no thermal runaway
- High temperature soldering guaranteed:
250°C/10 seconds, 0.375"(9.5mm) lead length,
5 lbs. (2.3kg) tension

R-6



Mechanical Data

- Case:** R-6 molded plastic body
- Terminals:** Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity:** Color band denotes cathode end
- Mounting Position:** Any
- Weight:** 0.074 ounce, 2.1 grams

DIM	DIMENSIONS				Note	
	inches		mm			
	Min.	Max.	Min.	Max.		
A	0.339	0.358	8.6	9.1		
B	0.339	0.358	8.6	9.1	Φ	
C	0.047	0.052	1.2	1.3	Φ	
D	1.000	-	25.40	-		

Maximum Ratings and Electrical Characteristics $\text{@}25^\circ\text{C}$ unless otherwise specified

	Symbols	FR601	FR602	FR603	FR604	FR605	FR606	FR607	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
Average forward rectified current $\text{at } T_A=75^\circ\text{C}$	$I_{(AV)}$				6.0				Amps
Peak forward surge current 8.3mS single half sine-wave (MIL-STD-750D 4066 method)	I_{FSM}				300.0				Amps
Maximum instantaneous forward voltage $\text{at } I_F=6.0\text{A}, T_A=25^\circ\text{C}$ (Note 3)	V_F				1.3				Volts
Maximum DC reverse current $\text{at rated DC blocking voltage}$ $T_A=25^\circ\text{C}$ $T_A=55^\circ\text{C}$	I_R				10.0	150.0			μA
Maximum reverse recovery time (Note 1)	T_{rr}			150		250	500		nS
Typical junction capacitance (Note 2)	C_J			150.0					pF
Operating and storage temperature range	T_J, T_{STG}			-65 to +150					°C

Notes:

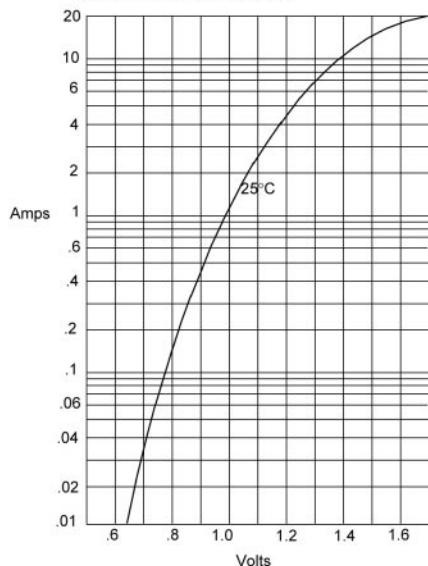
(1) Reverse recovery test conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts

(3) Pulse test: pulse width 300uSec, Duty cycle 1%

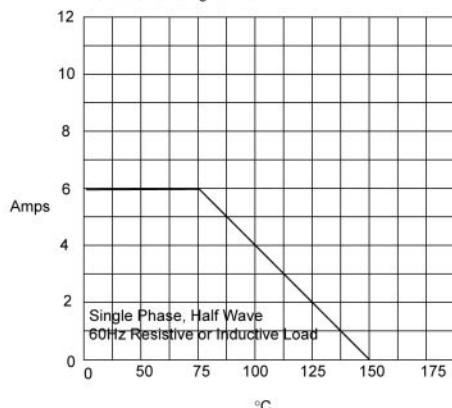
RATINGS AND CHARACTERISTIC CURVES

Figure 1
Typical Forward Characteristics



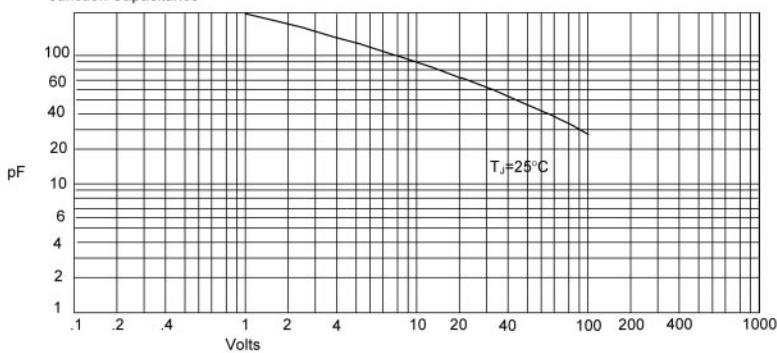
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Ambient Temperature - $^\circ\text{C}$

Figure 3
Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

RATINGS AND CHARACTERISTIC CURVES

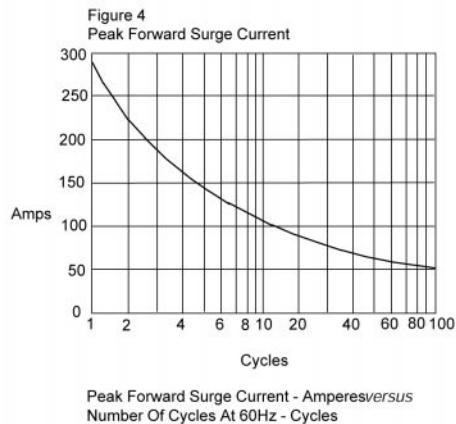


Figure 5
Reverse Recovery Time Characteristic And Test Circuit Diagram

