

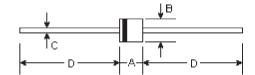
FR601 THRU FR607

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℃ 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: AnyWeight: 0.074 ounce, 2.1 grams

DIMENSIONS											
DIM	inches		m	Note							
	Min.	Max.	Min.	Max.	Note						
Α	0.339	0.358	8.6	9.1							
В	0.339	0.358	8.6	9.1	ф						
С	0.047	0.052	1.2	1.3	ф						
D	1.000	ı	25.40	-							

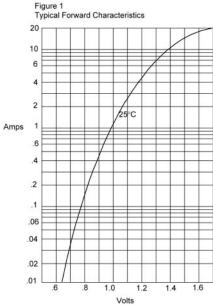
Maximum Ratings and Electrical Characteristics @25℃ unless otherwise specified

	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 at T_A =75 $^{\circ}$ 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 at I $_{\rm FM}$ =6.0A, T $_{\rm A}$ =25 $^{\circ}{\rm C}$ (Note 3)	V _F	1.3							Volts
Maximum DC reverse current T __ =25°C at rated DC blocking voltage T __ =55°C	I _R	10.0 150.0							μА
Maximum reverse recovery time (Note 1)	T _{rr}	150 250 500					00	nS	
Typical junction capacitance (Note 2)	C _J	150.0							ρF
Operating and storage temperature range	T _J , T _{STG}	-65 to +150						$^{\circ}$ C	

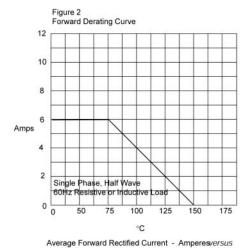
Notes:

- (1) Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, I_R=0.25A
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts
- (3) Pulse test: pulse width 300uSec, Duty cycle 1%

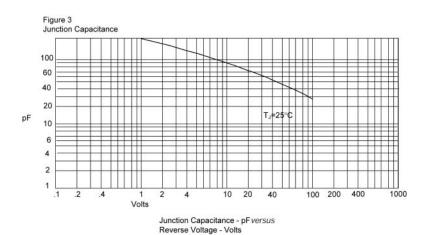
RATINGS AND CHARACTERISTIC CURVES



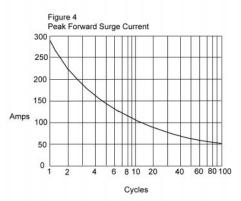
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Ambient Temperature -°C

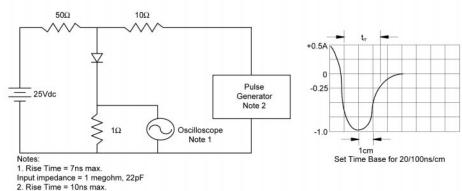


RATINGS AND CHARACTERISTIC CURVES



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Figure 5
Reverse Recovery Time Characteristic And Test Circuit Diagram



This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.