

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Low Forward Voltage Drop
- High Current Capability
- Fast Switching Speed For High Efficiency

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent RMS		DC
Number	_	Peak Reverse Voltage		Blocking
		Voltage	_	Voltage
FR601	FR601	50V	35V	50V
FR602	FR602	100V	70V	100V
FR603	FR603	200V	140V	200V
FR604	FR604	400V	280V	400V
FR605	FR605	600V	420V	600V
FR606	FR606	800V	560V	800V
FR607	FR607	1000V	700V	1000V

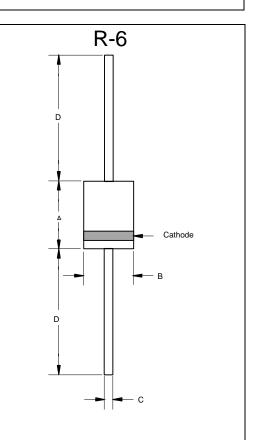
Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward Current	I _{F(AV)}	6 A	T _A = 55°C				
Peak Forward Surge Current	I _{FSM}	300A	8.3ms, half sine				
Maximum Instantaneous Forward Voltage	V _F	1.3V	$I_{FM} = 6.0A;$ $T_A = 25^{\circ}C$				
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 150μΑ	$T_{A} = 25^{\circ}C$ $T_{A} = 55^{\circ}C$				
Maximum Reverse Recovery Time FR601-604 FR605 FR606-607	Trr	150ns 250ns 500ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A				
Typical Junction Capacitance	CJ	150pF	Measured at 1.0MHz, V _R =4.0V				
*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%							

FR607 6 Amp Fast Recovery Rectifier 50 to 1000 Volts

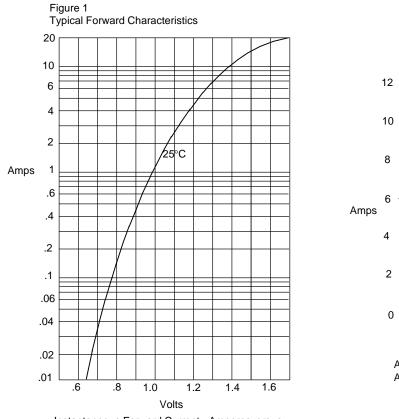
FR601

THRU



DIMENSIONS								
	INCHES		ММ					
DIM	MIN	MAX	MIN	MAX	NOTE			
А	.340	.360	8.60	9.10				
В	.340	.360	8.60	9.10				
С	.048	.052	1.20	1.30				
D	1.000		25.40					
D	1.000		25.40					

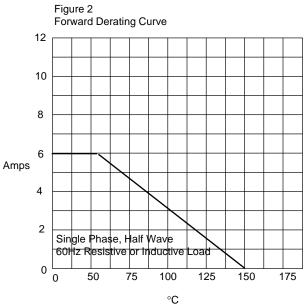
FR601 thru FR607



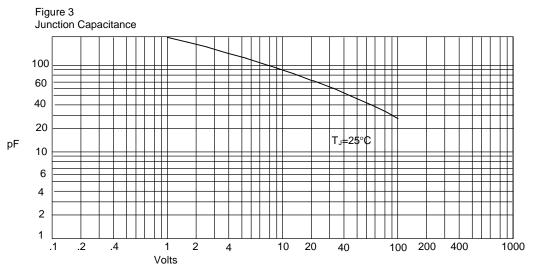
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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Average Forward Rectified Current - Amperes/ersus Ambient Temperature -°C

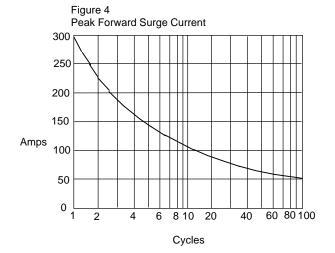


Junction Capacitance - pF*versus* Reverse Voltage - Volts

FR601 thru FR607

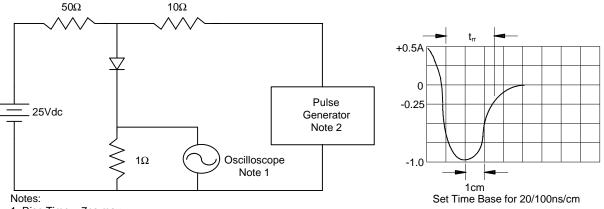


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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Figure 5 Reverse Recovery Time Characteristic And Test Circuit Diagram



1. Rise Time = 7ns max. Input impedance = 1 megohm, 22pF 2. Rise Time = 10ns max.

Source impedance = 50 ohms

3. Resistors are non-inductive



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