

ROHS

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 FR601 THRU FR607

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- 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
- Device Maximum Maximum MCC Maximum Catalog Marking Recurrent RMS DC Number Peak Reverse Voltage **Blocking** Voltage Voltage FR601 50V 35V 50V FR601 70V FR602 100V FR602 100V FR603 200V 140V FR603 200V FR604 FR604 400V 280V 400V FR605 FR605 600V 420V 600V FR606 FR606 800V 800V 560V FR607 FR607 1000V 700V 1000V

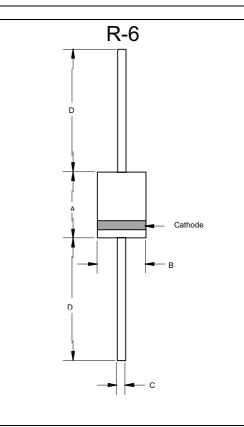
Electrical Characteristics @ 25°C Unless Otherwise Specified

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

^{*}Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

6 Amp Fast Recovery Rectifier 50 to 1000 Volts



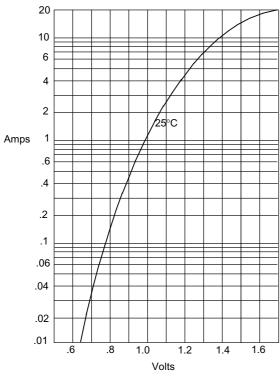
DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.340	.360	8.60	9.10		
В	.340	.360	8.60	9.10		
С	.048	.052	1.20	1.30		
D	1.000	-	25.40	-		

FR601 thru FR607

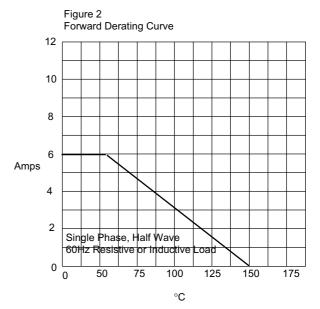
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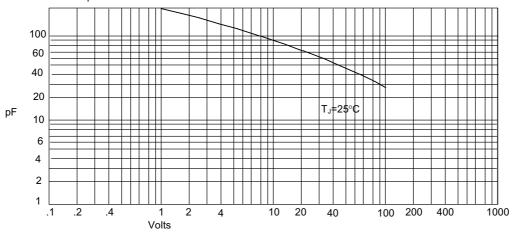


Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts



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



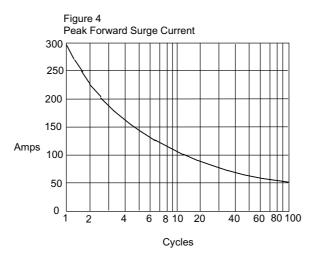


Junction Capacitance - pF*versus* Reverse Voltage - Volts

FR601 thru FR607

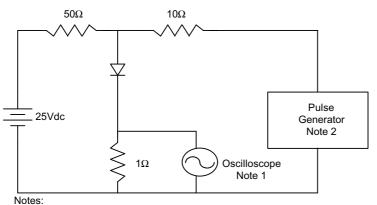
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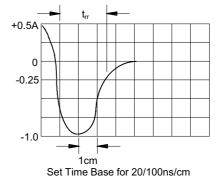
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Peak Forward Surge Current - Amperes*versus* Number Of Cycles At 60Hz - Cycles

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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Ordering Information:

Device	Packing	
Part Number-TP	Tape&Reel: 500pcs/Reel	
Part Number-AP	Ammo Packing: 450pcs/Ammo Box	
Part Number-BP	Bulk: 4.8Kpcs/Carton	

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