

Micro Commercial Components



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

Features

- Halogen free available upon request by adding suffix "-HF"
- 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

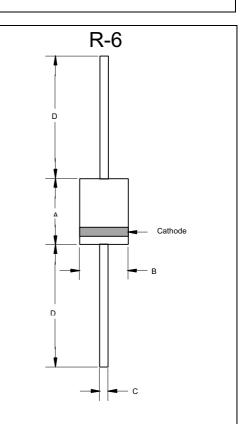
r	1		1	
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage	Ũ	Voltage
FR601	FR601	50V	35V	50V
FR602	FR602	100V	70V	100V
FR603	FR603	200V	140V	200V
FR604	FR604	400V	280V	400V
FR605	FR605	600V	420V	600V
FR606	FR606	800V	560V	800V
FR607	FR607	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

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°C	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 150μΑ	T _A = 25°C T _A = 55°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	
Dulas Test: Dulas Width 200uses, Duty Cycle 19/				



6 Amp Fast Recovery Rectifier 50 to 1000 Volts

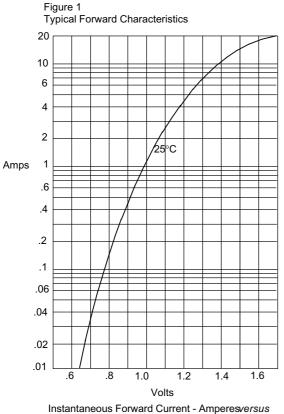


	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.340	.360	8.60	9.10	
В	.340	.360	8.60	9.10	
С	.048	.052	1.20	1.30	
D	1.000		25.40		

*Pulse Test: Pulse Width 300µsec, Duty Cycle 1% Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

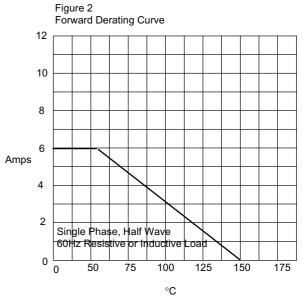
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FR601 thru FR607

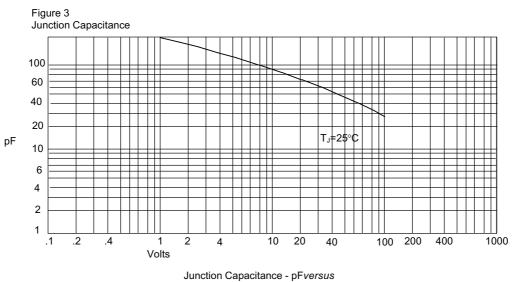


Instantaneous Forward Voltage - Volts





Average Forward Rectified Current - Amperes/ersus Ambient Temperature $\ -^\circ C$



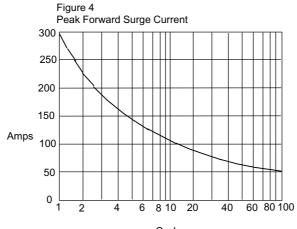
Reverse Voltage - Volts

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FR601 thru FR607



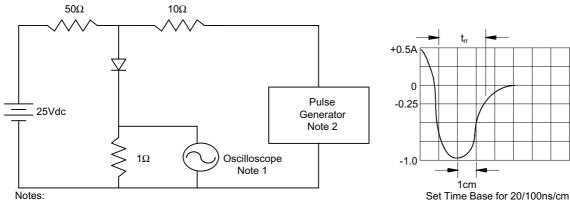
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Cycles

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





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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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