

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

FR201 THRU FR207

Halogen free available upon request by adding suffix "-HF" Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates

Compliant. See ordering information)

High Current Capability

Features

- Fast Switching Speed For High Efficiency
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

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
FR201	FR201	50V	35V	50V
FR202	FR202	100V	70V	100V
FR203	FR203	200V	140V	200V
FR204	FR204	400V	280V	400V
FR205	FR205	600V	420V	600V
FR206	FR206	800V	560V	800V
FR207	FR207	1000V	700V	1000V

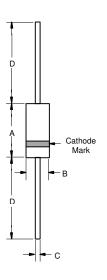
⊟ectrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	2 A	T _A = 55°C
Peak Forward Surge Current	I _{FSM}	60A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.3V	I _{FM} = 2.0A; T _A = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 100μA	T _A = 25°C T _A = 100°C
I ² t Rating for fusing	I ² t	15A ² S	t<8.3ms
Maximum Reverse Recovery Time FR201-204 FR205 FR206-207	T _{rr}	150ns 250ns 500ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	CJ	40pF	Measured at 1.0MHz, V _R =4.0V

 ${\bf Notes: 1. High\ Temperature\ Solder\ Exemption\ Applied, see\ EU\ Directive\ Annex\ Notes\ 7.}$

2 Amp Fast Recovery Rectifier 50 to 1000 Volts





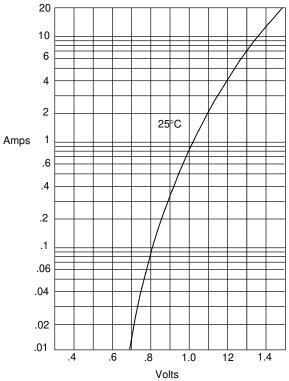
DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.230	.300	5.80	7.60			
В	.104	.140	2.60	3.60			
С	.026	.034	.70	.90			
D	1.000		25.40				

FR201 thru FR207

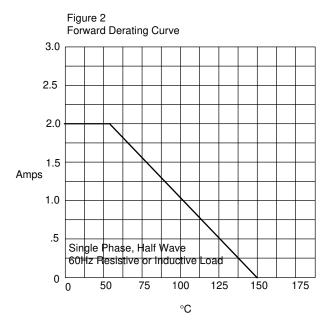
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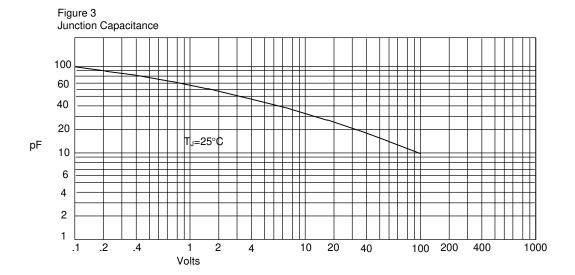
Figure 1 Typical Forward Characteristics



Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



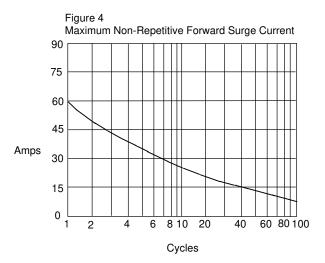
Average Forward Rectified Current - Amperes/ersus Ambient Temperature - $^{\circ}$ C



Junction Capacitance - pF*versus* Reverse Voltage - Volts

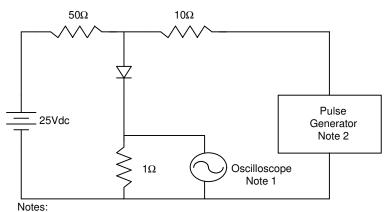


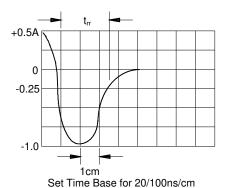
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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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



Ordering Information:

Device	Packing	
Part Number-TP	Tape&Reel: 4Kpcs/Reel	
Part Number-BP	Bulk: 25 Kpcs/Carton	

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

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