

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!



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Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 FR2A-L THRU FR2M-L

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Higher Temp Soldering: 260°C for 10 Seconds At Terminals
- Available on Tape and Reel
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C

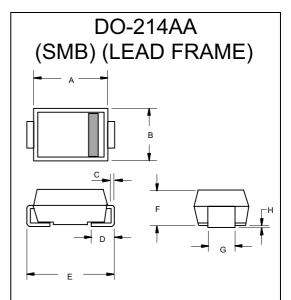
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FR2A-L	FR2A	50V	35V	50V
FR2B-L	FR2B	100V	70V	100V
FR2D-L	FR2D	200V	140V	200V
FR2G-L	FR2G	400V	280V	400V
FR2J-L	FR2J	600V	420V	600V
FR2K-L	FR2K	800V	560V	800V
FR2M-L	FR2M	1000V	700V	1000V

Bectrical Characteristics @ 25°C Unless Otherwise Specified

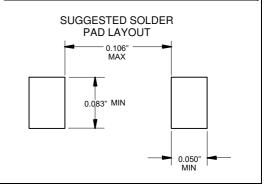
Average Forward Current	I _{F(AV)}	2.0A	T _J =90°C	
Peak Forward Surge Current	I _{FSM}	50A	8.3ms half sine	
Maximum Instantaneous Forward Voltage	V_{F}	1.30V	I _{FM} =2.0A T _A =25°C*	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0uA	T _J =25°C	
Maximum Reverse Recovery Times FR2A-L~FR2G-L FR2J-L FR2K-L~FR2M-L	t _{rr}	150ns 250ns 500ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	
Typical Junction Capacitance	C _j	50pF	Measured at 1.0MHz, V _R =4.0V	

Note:1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7. *Pulse test: Pulse width 300 usec, duty cycle 2%.

2.0 Amp Fast Recovery Rectifier 50 to 1000 Volts



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.160	.180	4.06	4.57		
В	.130	.155	3.30	3.94		
С	.006	.012	0.15	0.31		
D	.030	.060	0.76	1.52		
E	.205	.220	5.21	5.59		
F	.079	.103	2.01	2.62		
G	.077	.087	1.96	2.21		
Н	.002	.008	0.05	0.20		

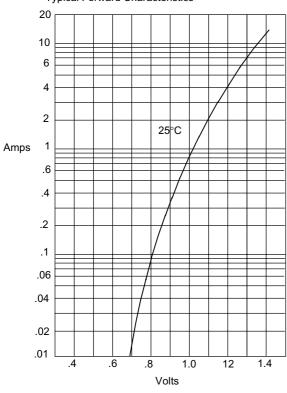




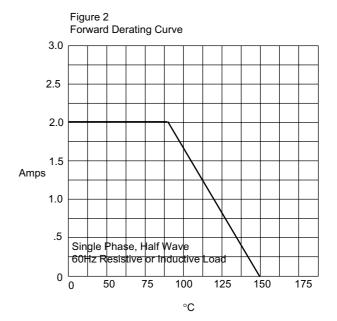
FR2A-L thru FR2M-L

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Figure 1 Typical Forward Characteristics

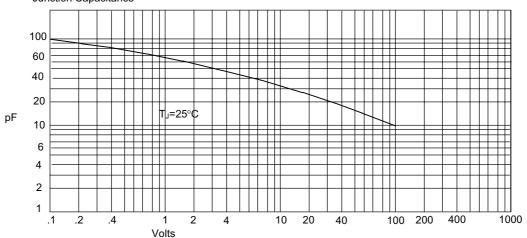


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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

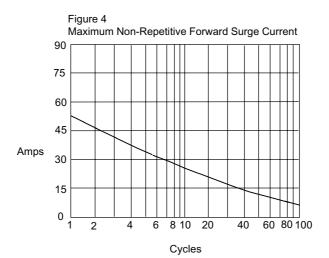
Figure 3 Junction Capacitance



Junction Capacitance - pF*versus* Reverse Voltage - Volts

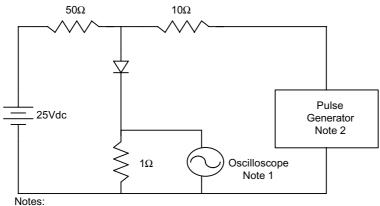


FR2A-L thru FR2M-L



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

+0.5A

-1.0

-1.0

-1.0

Set Time Base for 20/100ns/cm



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Ordering Information:

Device	Packing	
FR2A-LTP~FR2M-LTP	Tape&Reel: 3Kpcs/Reel	

Note: Adding "-HF" suffix for halogen free, eg. FR2A-LTP-HF~FR2M-LTP-HF

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Revision: C 4 of 4 2013/08/20