



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

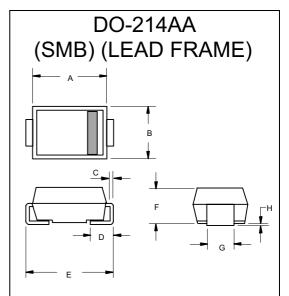
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FR2A-L	FR2A	50V	35V	50V
FR2B-L	FR2B	100V	70V	100V
FR2D-L	FR2D	200V	140V	200V
FR2G-L	FR2G	400V	280V	400V
FR2J-L	FR2J	600V	420V	600V
FR2K-L	FR2K	800V	560V	800V
FR2M-L	FR2M	1000V	700V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

Electrical Characteristics @ 25°C Unless Otherwise Specified

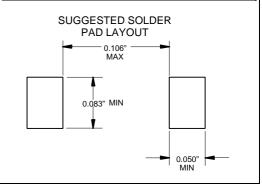
Average Forward	I _{F(AV)}	2.0A	T_=90°C
Current	·F(AV)	2.071	1, 00 0
Peak Forward	I _{FSM}	50A	8.3ms half sine
Surge Current	1 0.01		
Maximum Instantaneous Forward Voltage	V_{F}	1.30V	I _{FM} =2.0A T _A =25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0uA	T _J =25°C
Maximum Reverse 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		

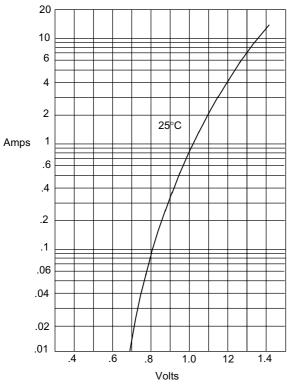




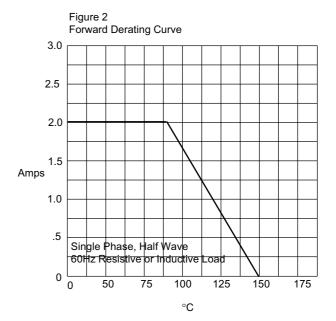
FR2A-L thru FR2M-L

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Figure 1 Typical Forward Characteristics

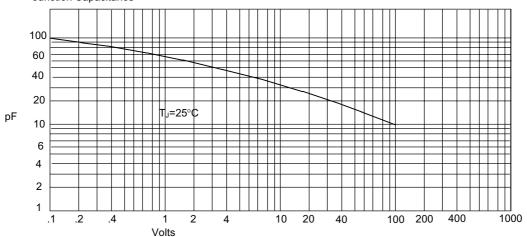


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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

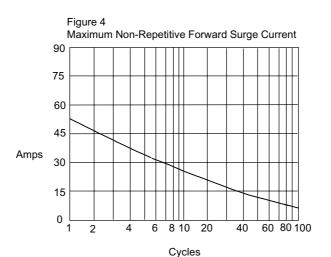
Figure 3 Junction Capacitance



Junction Capacitance - pF*versus* Reverse Voltage - Volts

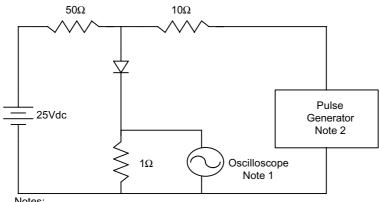


FR2A-L thru FR2M-L



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

Figure 5 Reverse Recovery Time Characteristic And Test Circuit Diagram



Notes: 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 0 -0.25 -1.0 1cm 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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