

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

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

FR2AL THRU FR2ML

Features

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Easy Pick And Place
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Superfast Recovery Times For High Efficiency

Maximum Ratings

- Operating Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

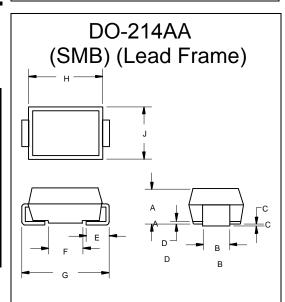
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage	_	Voltage
FR2AL	FR2A	50V	35V	50V
FR2BL	FR2B	100V	70V	100V
FR2DL	FR2D	200V	140V	200V
FR2GL	FR2G	400V	280V	400V
FR2JL	FR2J	600V	420V	600V
FR2KL	FR2K	800V	560V	800V
FR2ML	FR2M	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

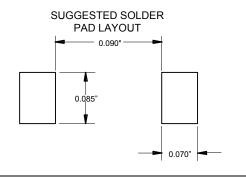
Average Forward current	I _{F(AV)}	2.0A	T _A = 90°C
Peak Forward Surge Current	I _{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_{F}	1.30V	I _{FM} = 2.0A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 200μΑ	T _J = 25°C T _J = 125°C
Maximum Reverse Recovery Time FR2AL-GL FR2JL FR2KL-ML	T _{rr}	150ns 250ns 500ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance	С	40pF	Measured at 1.0MHz, V _R =4.0V

^{*}Pulse test: Pulse width 300 μsec, Duty cycle 1%

2 Amp Fast Recovery Silicon Rectifier 50 to 1000 Volts



DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.075	.095	1.91	2.41			
В	.077	.083	1.96	2.10			
С	.002	.008	.05	.20			
D		.02		.51			
E	.030	.060	.76	1.52			
G	.200	.220	5.08	5.59			
Н	.160	.187	4.06	4.75			
J	.130	.155	3.30	3.94			
J	.130	.155	3.30	3.94			

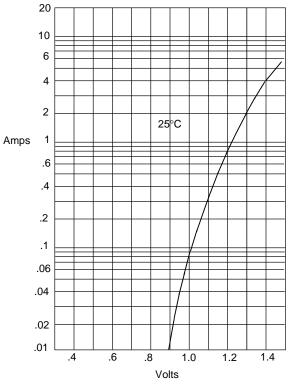


FR2AL thru FR2ML

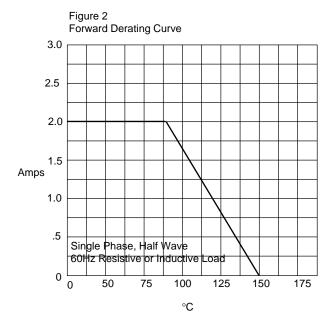
 $\cdot M \cdot C \cdot C \cdot$

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Figure 1
Typical Forward Characteristics

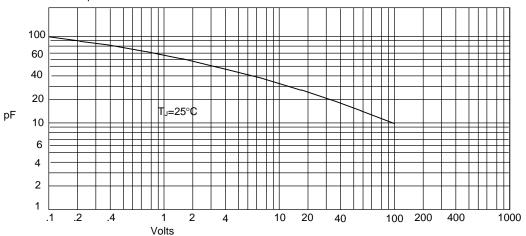


Instantaneous Forward Current - Amperes*versus* Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperesversus Ambient Temperature - $^{\circ}$ C



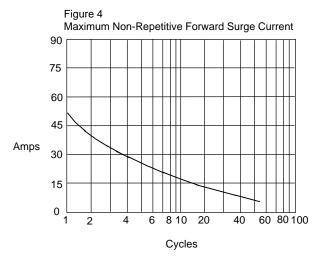


Junction Capacitance - pF*versus* Reverse Voltage - Volts

FR2AL thru FR2ML

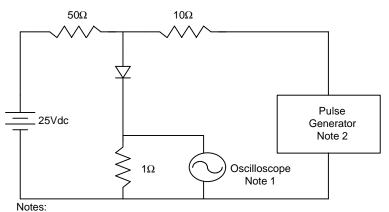


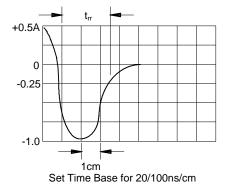
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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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



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