

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 (Note1) ("P"Suffix designates Compliant. See ordering information)
- High Current Capability
- 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

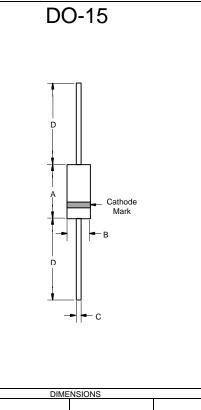
MCC	Device	Maximum	Maximum	Maximum		
Catalog	Marking	Recurrent	RMS	DC		
Number	_	Peak Reverse	Voltage	Blocking		
		Voltage	_	Voltage		
FR201	FR201	50V	35V	50V		
FR202	FR202	100V	70V	100V		
FR203	FR203	200V	140V	200V		
FR204	FR204	400V	280V	400V		
FR205	FR205	600V	420V	600V		
FR206	FR206	800V	560V	800V		
FR207	FR207	1000V	700V	1000V		

Electrical Characteristics @ 25°C Unless Otherwise Specified

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

FR201 THRU FR207

2 Amp Fast Recovery Rectifier 50 to 1000 Volts

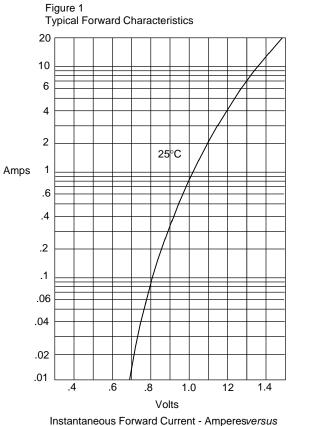


	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.230	.300	5.80	7.60	
В	.104	.140	2.60	3.60	
С	.026	.034	.70	.90	
D	1.000		25.40		

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.

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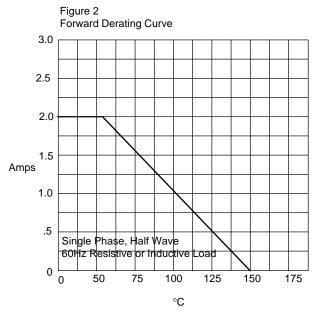
FR201 thru FR207



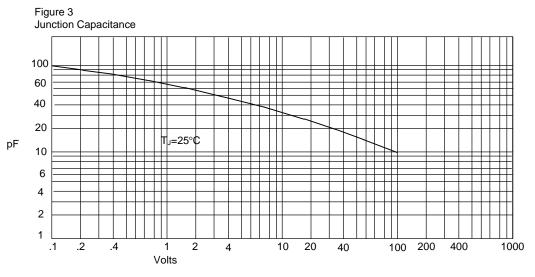
Instantaneous Forward Voltage - Volts



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



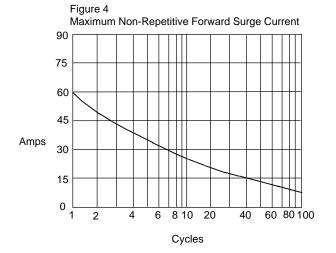
Junction Capacitance - pF*versus* Reverse Voltage - Volts

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FR201 thru FR207

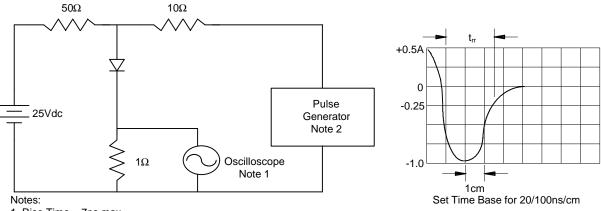


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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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-AP	Ammo Packing: 3Kpcs/Ammo Box		

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

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