

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

FR201 THRU FR207

Features

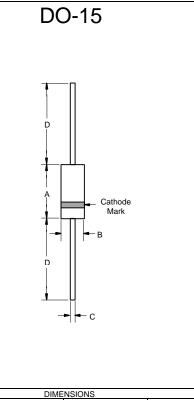
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High Current Capability
- Fast Switching Speed For High Efficiency
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix designates
- Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

	Microsemi	Device	Maximum		Ma	aximum	Maximum	
	Catalog	Marking	Recurrent		RMS		DC	
	Number	-	Peak Rev	Peak Reverse		oltage	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		4	420V	600V	
	FR206	FR206	800V		560V		800V	
	FR207	FR207	1000\	/	700V		1000V	
E	Electrical Characteristics @ 25°C Unless Otherwise Specified							
	Average Forward Current		I _{F(AV)}	2 /	4	$T_{A} = 55^{\circ}$	C	
			· · ·					
	Peak Forward Surge		I _{FSM}	60/	A	8.3ms, I	half sine	
	Current							
	Maximum					I _{FM} = 2.0A;		
	Instantaneous Forward Voltage		V _F	1.3	V	$T_{A} = 25^{\circ}$	Ο°	
	Maximum D	С						
	D				-		_	

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		

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

 I_R

Trr

CJ

5.0µA

100µA

150ns

250ns

500ns

40pF

 $T_A = 25^{\circ}C$

I_{rr}=0.25A

Measured at

 $T_A = 100^{\circ}C$

I_F=0.5A, I_R=1.0A,

1.0MHz, V_R=4.0V

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Reverse Current At

Rated DC Blocking

Maximum Reverse Recovery Time

Typical Junction

Capacitance

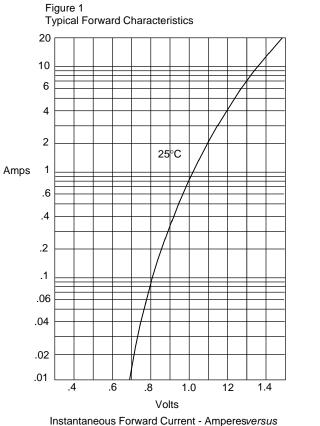
FR201-204

FR206-207

FR205

Voltage

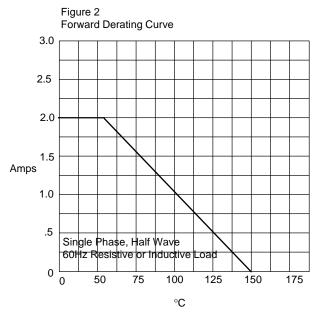
FR201 thru FR207



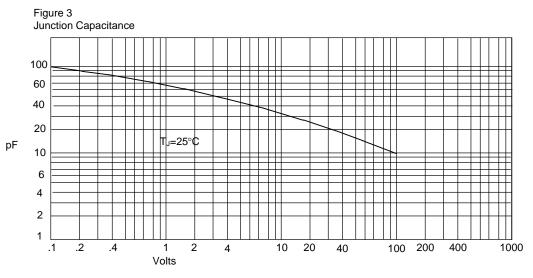
Instantaneous Forward Voltage - Volts



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



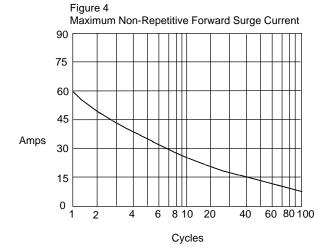
Junction Capacitance - pF*versus* Reverse Voltage - Volts

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FR201 thru FR207

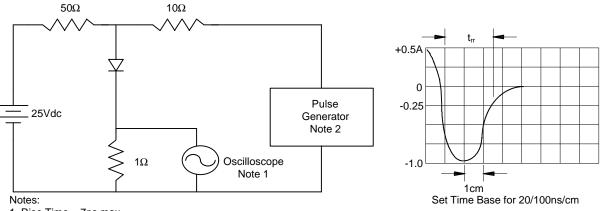


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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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

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Ordering Information :

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

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