

Micro Commercial Components



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

Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Fast Switching Speed For High Efficiency
- High Current Capability
- 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

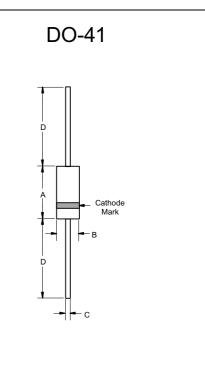
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number	_	Peak Reverse	Voltage	Blocking
		Voltage	-	Voltage
FR151S	FR151S	50V	35V	50V
FR152S	FR152S	100V	70V	100V
FR153S	FR153S	200V	140V	200V
FR154S	FR154S	400V	280V	400V
FR155S	FR155S	600V	420V	600V
FR156S	FR156S	800V	560V	800V
FR157S	FR157S	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward	I _{F(AV)}	1.5 A	T _A = 55°C
Current			
Peak Forward Surge	I _{FSM}	50A	8.3ms, half sine
Current			
Maximum			I _{FM} = 1.5A;
Instantaneous	VF	1.3V	T _A = 25°C
Forward Voltage			
Maximum DC			
Reverse Current At	I _R	5.0µA	T _A = 25°C
Rated DC Blocking		100µA	T _A = 100°C
Voltage			
Maximum Reverse			
Recovery Time			
FR151S-154S	T _{rr}	150ns	I _F =0.5A, I _R =1.0A,
FR155S		250ns	I _{rr} =0.25A
FR156S-157S		500ns	
Typical Junction	CJ	20pF	Measured at
Capacitance	-		1.0MHz, V _R =4.0V



1.5 Amp Fast Recovery Rectifier 50 to 1000 Volts



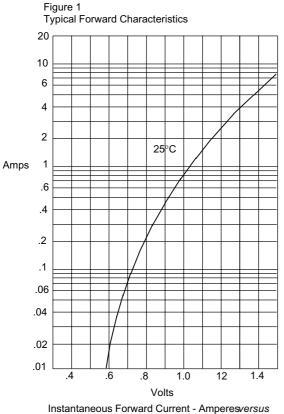
DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.166	.205	4.10	5.20		
В	.080	.107	2.00	2.70		
С	.028	.034	.70	.90		
D	1.000		25.40			

*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

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

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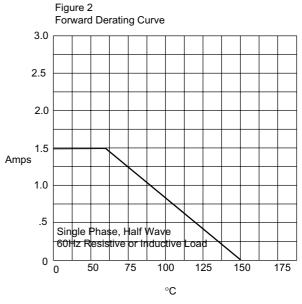
FR151S thru FR157S



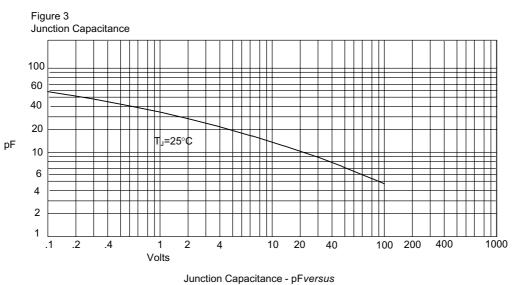
Instantaneous Forward Voltage - Volts



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



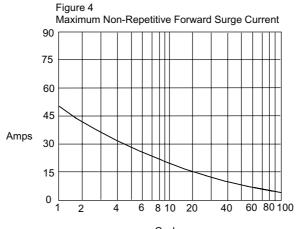
Reverse Voltage - Volts

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FR151S thru FR157S

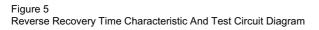


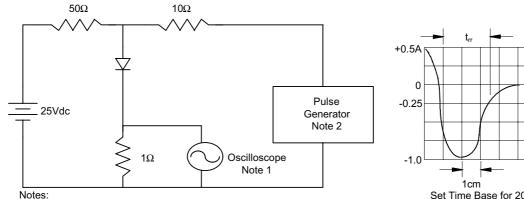
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Cycles

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

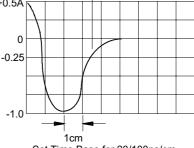




1. Rise Time = 7ns max. Input impedance = 1 megohm, 22pF 2. Rise Time = 10ns max.

Source impedance = 50 ohms

3. Resistors are non-inductive



Set Time Base for 20/100ns/cm

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk: 50Kpcs/Carton

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