

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

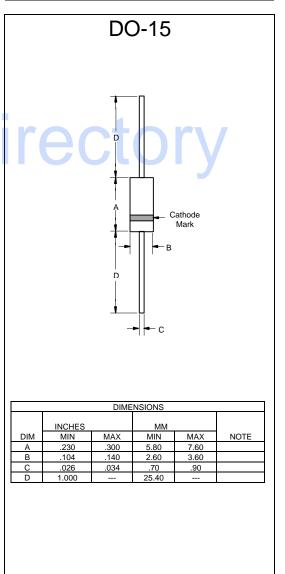
Maximum Ratings

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

-		-	-					
	MCC	Device	Maximu	ım	Ma	aximum	Maximum	
	Catalog	Marking	Recurre	ent	RMS		DC	
	Number	lumber		Peak Reverse		/oltage	Blocking	
			Voltage				Voltage	
	FR151GP FR151GF					35V	50V	
	FR152GP	FR152GP	100V		70V		100V	
	FR153GP	FR153GP	200V		140V		200V	
	FR154GP	FR154GP	400V			280V	400V	
	FR155GP	FR155GP	600V		420V		600V	
	FR156GP	FR156GP	800V		560V		800V	
	FR157GP	FR157GP	1000\	/		700V	1000V	
E	Electrical Characteristics @ 25°C Unless Otherwise Specified							
	Average Forward Current Peak Forward Surge Current		I _{F(AV)}	1.5 A		T _A = 55°C		
			()					
			I _{FSM}	50A		8.3ms, half sine		
	Maximum					I _{FM} = 1.5A;		
	Instantaneous Forward Voltage		V _F	1.3V		$T_{A} = 25^{\circ}$	°C	
	Maximum DC Reverse Current At							
			Ι _R 5.0μ					
	Rated DC B	locking		100µ		T _A = 100°C		
	Voltage							
	Maximum R							
	Recovery Time		_					
		P-154GP	T _{rr} 150				, I _R =1.0A,	
		R155GP	250					
		P-157GP		500ns				
	Typical Junction		C _J 20p		۶F	Measured at		
	Capacitance 1.0MHz, V _R =4.0V							
*	*Pulse Test: Pulse Width 300usec, Duty Cycle 1%							

FR151GP THRU FR157GP

1.5 Amp Glass Passivated Fast Recovery Rectifier 50 to 1000 Volts

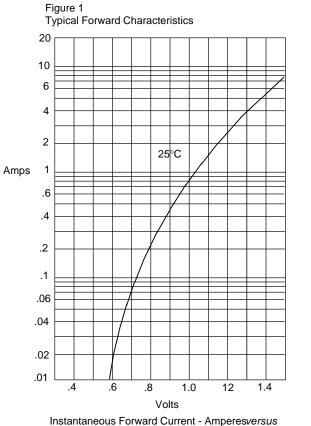


*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

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

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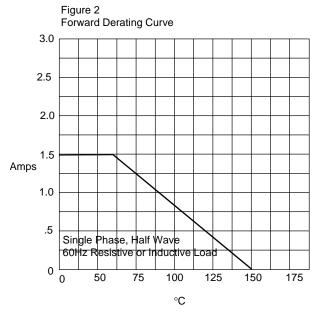
FR151GP thru FR157GP



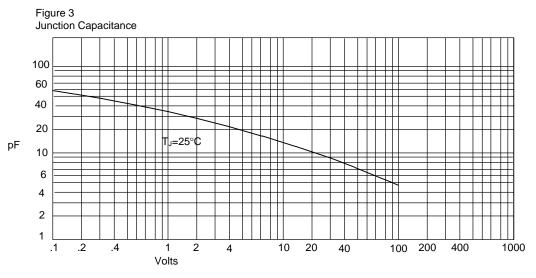
Instantaneous Forward Voltage - Volts



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



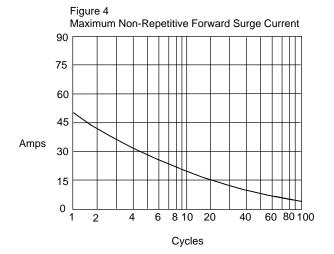
Junction Capacitance - pF*versus* Reverse Voltage - Volts

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FR151GP thru FR157GP

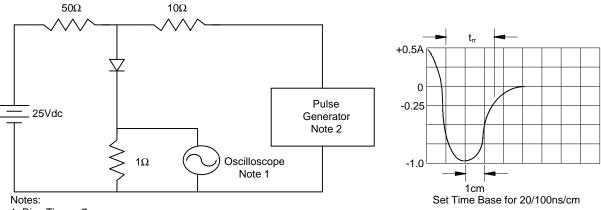


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Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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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Revision: B

2013/01/01



Ordering Information :

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

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

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