

Micro Commercial Components



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

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Low Forward Voltage Drop and Low Leakage,
- Ultra Fast Switching Speed For High Efficiency

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance 20°C/W

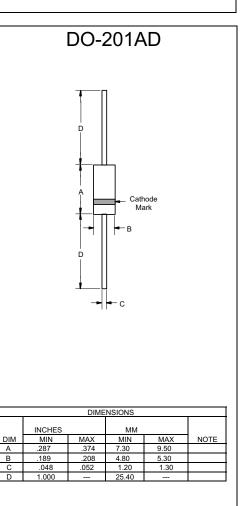
MCC	Device	Maximum Maximum		Maximum		
Catalog	Marking	Recurrent	RMS	DC		
Number		Peak Reverse	Voltage	Blocking		
		Voltage		Voltage		
UF5400		50V	35V	50V		
UF5401		100V	70V	100V		
UF5402		200V	140V	200V		
UF5404		400V	280V	400V		
UF5405		500V	350V	500V		
UF5406		600V	420V	600V		
UF5407		800V	560V	800V		
UF5408		1000V	700V	1000V		

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	3 A	T _A = 55°C	
Peak Forward Surge	I _{FSM}	150A	8.3ms, half sine	
Current				
Maximum				
Instantaneous				
Forward Voltage				
UF5400-5402	V _F	1.0V	I _{FM} = 3.0A;	
UF5404		1.3V	T _A = 25°C	
UF5405-UF5408		1.7V		
Reverse Current At	I _R	10µA	T _A = 25°C	
Rated DC Blocking		50µA	$T_{A} = 100^{\circ}C$	
Voltage (Maximum DC)		οσμιτ		
Maximum Reverse				
Recovery Time				
UF5400-5404	T _{rr}	50ns	I _F =0.5A, I _R =1.0A,	
UF5405-5408		75ns	I _{rr} =0.25A	
Typical Junction				
Capacitance				
UF5400-5404	CJ	75pF	Measured at	
UF5405-5408	-	50pF	1.0MHz, V _R =4.0V	
National High Temperature Colder Everyntian Applied, and Ell Directive Append 7				

UF5400 THRU **UF5408**

3 Amp Ultra Fast Recovery Rectifier 50 to 1000 Volts



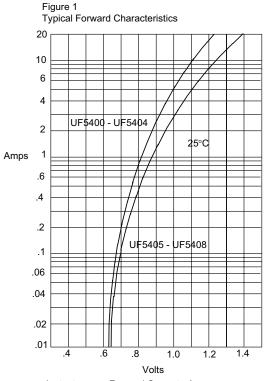
Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

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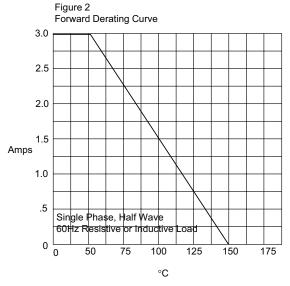
UF5400 thru UF5408



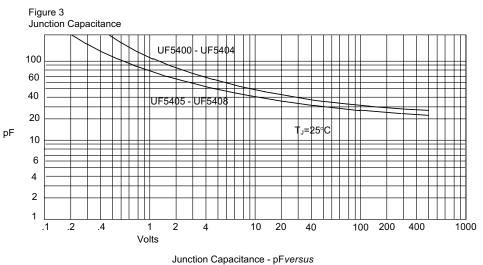
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



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



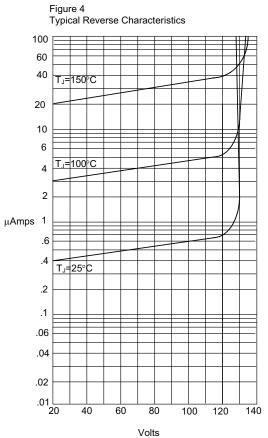
Reverse Voltage - Volts

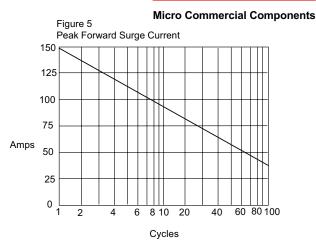
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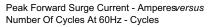
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UF5400 thru UF5408



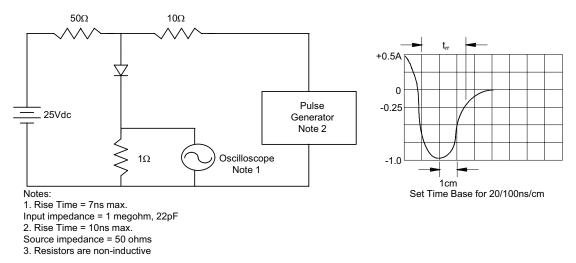




Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts

Figure 6

Reverse Recovery Time Characteristic And Test Circuit Diagram



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Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel	
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box	
Part Number-BP	Bulk: 12Kpcs/Carton	

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