

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 Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

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

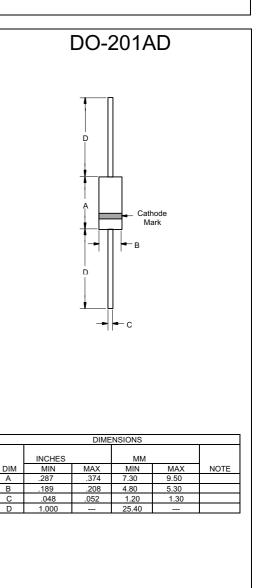
	Typical memai Resistance 20 C/W						
MCC	Device	Maximum	Maximum	Maximum			
Catalog	Marking	Recurrent	Recurrent RMS				
Number	_	Peak Reverse	Voltage	Blocking			
		Voltage	-	Voltage			
UF5400		50V	35V	50V			
UF5401		100V	70V	100V			
UF5402		200V	140V	200V			
UF5404		400V	280V	400V			
UF5405		500V	350V	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 Current	I _{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage			
UF5400-5402 UF5404 UF5405-UF5408	V _F	1.0V 1.3V 1.7V	I _{FM} = 3.0A; T _A = 25°C
Reverse Current At Rated DC Blocking Voltage (Maximum DC)	I _R	10μΑ 50μΑ	T _A = 25°C T _A = 100°C
Maximum Reverse Recovery Time UF5400-5404 UF5405-5408	T _{rr}	50ns 75ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A
Typical Junction Capacitance UF5400-5404 UF5405-5408	CJ	75pF 50pF	Measured at 1.0MHz, V _R =4.0V

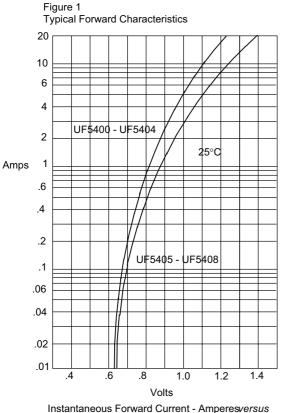
UF5400 THRU **UF5408**

3 Amp Ultra Fast Recovery Rectifier 50 to 1000 Volts



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

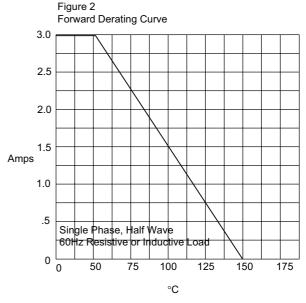
UF5400 thru UF5408



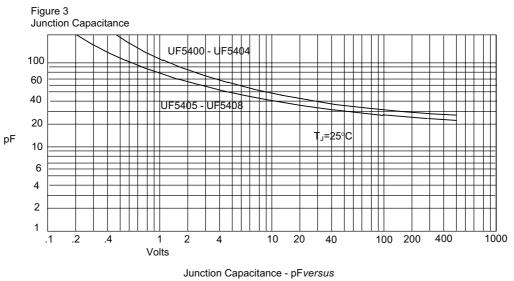
Instantaneous Forward Voltage - Volts



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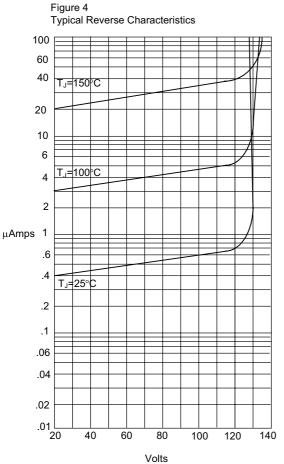
Average Forward Rectified Current - Amperes/ersus Ambient Temperature $-^{\circ}C$

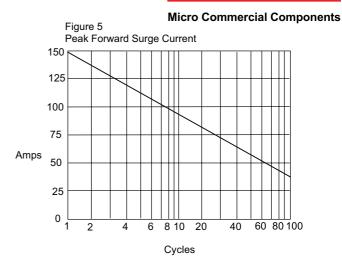


Reverse Voltage - Volts



UF5400 thru UF5408



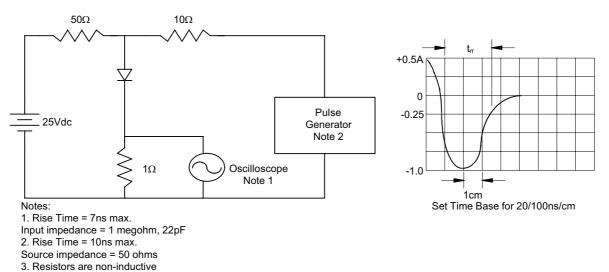


Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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

Figure 6

Reverse Recovery Time Characteristic And Test Circuit Diagram





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	

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

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