

Micro Commercial Components



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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
- Glass Passivated Junction
- Low Forward Voltage Drop and High Surge Capability
- 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

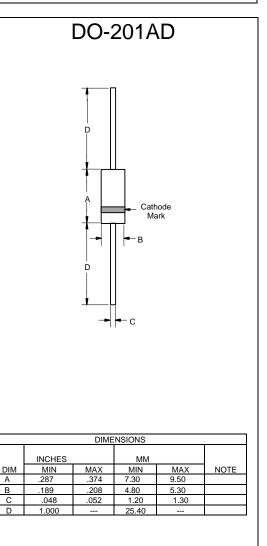
MCC	Device	Maximum	Maximum	Maximum		
Catalog	Marking	Recurrent RMS		DC		
Number		Peak Reverse Voltage		Blocking		
		Voltage	_	Voltage		
UF5400GP		50V	35V	50V		
UF5401GP		100V	70V	100V		
UF5402GP		200V	140V	200V		
UF5404GP		400V	280V	400V		
UF5406GP		600V	420V	600V		
UF5407GP		800V	560V	800V		
UF5408GP		1000V	700V	1000V		

Electrical Characteristics @ 25°C Unless Otherwise Specified

$\frac{1}{2}$					
Average Forward	I _{F(AV)}	3 A	T _A = 55°C		
Current					
Peak Forward Surge	I _{FSM}	100A	8.3ms, half sine		
Current					
Maximum					
Instantaneous					
Forward Voltage					
UF5400GP-5402GP	V _F	0.95V	I _{FM} = 3.0A;		
UF5404GP		1.3V	T _A = 25°C		
UF5406GP-5408GP		1.7V			
Maximum DC					
Reverse Current At	I _R	10μΑ	$T_A = 25^{\circ}C$		
Rated DC Blocking		50µA	T _A = 100°C		
Voltage		•			
Maximum Reverse					
Recovery Time					
UF5400GP-5404GP	Trr	50ns	I _F =0.5A, I _R =1.0A,		
UF5406GP-5408GP		75ns	I _{rr} =0.25A		
Typical Junction					
Capacitance					
UF5400GP-5404GP	CJ	75pF	Measured at		
UF5406GP-5408GP	-	50pF	1.0MHz, V _R =4.0V		

UF5400GP THRU UF5408GP

3 Amp Ultra Fast Glass Passivated Recovery Rectifier 50 to 1000 Volts

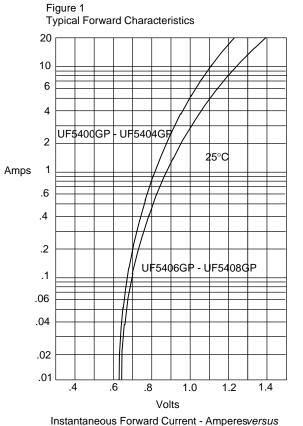


Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

Revision: C

2017/01/10

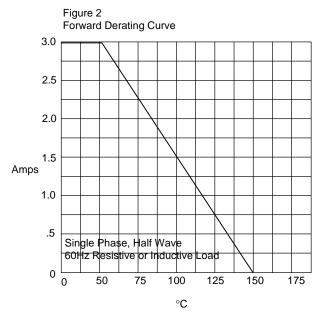
UF5400GP thru UF5408GP



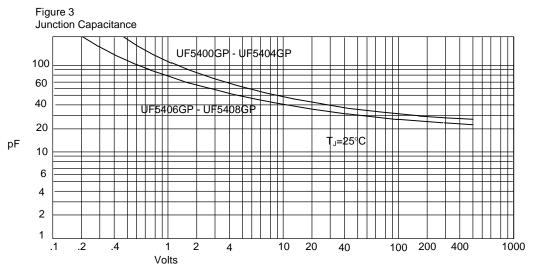
Instantaneous Forward Voltage - Volts



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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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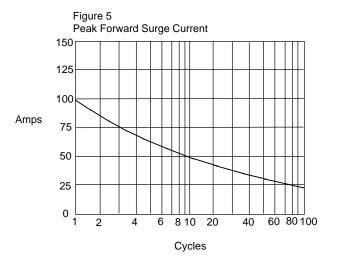
UF5400GP thru UF5408GP

Figure 4

Typical Reverse Characteristics 100 60 40 T_=150°C 20 10 6 T_=100°C 4 2 μAmps 1 .6 .4 TJ=25°C .2 .1 .06 .04 .02 .01 40 60 80 140 20 100 120 Volts

•*M*•*C*•*C*•

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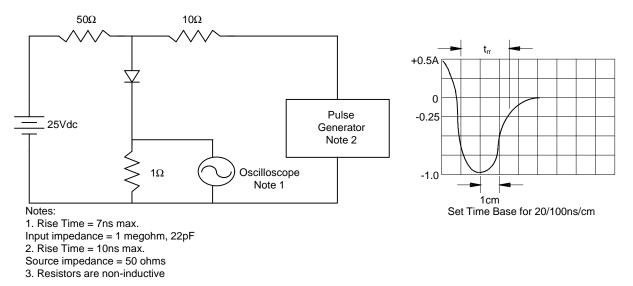


Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperesversus 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	

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

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Micro Commercial Components (MCC): UF5404GP-TP UF5407GP-TP