

**Micro Commercial Components** 



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# **UF4001GP THRU UF4007GP**

## Features

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

aximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance 40°C/W

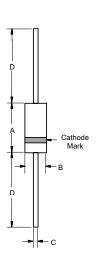
MCC Catalog	Device Marking	Maximum Recurrent	Maximum RMS	Maximum DC
Number	Marking	Peak Reverse Voltage	Voltage	Blocking Voltage
UF4001GP	UF4001GP	50V	35V	50V
UF4002GP	UF4002GP	100V	70V	100V
UF4003GP	UF4003GP	200V	140V	200V
UF4004GP	UF4004GP	400V	280V	400V
UF4005GP	UF4005GP	600V	420V	400V
UF4006GP	UF4006GP	800V	560V	800V
UF4007GP	UF4007GP	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

-1004110411011414010110		, 01111000	чист писс сресинов
Average Forward Current	I <sub>F(AV)</sub>	1 A	T <sub>A</sub> = 55°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine
Maximum Instantaneous Forward Voltage			
UF4001GP-4003GP UF4004GP UF4005GP-4007GP	$V_{F}$	1.0 V 1.3 V 1.7 V	I <sub>FM</sub> = 1.0A; T <sub>A</sub> = 25°C
Maximum DC			
Reverse Current At	$I_R$	5 uA	T <sub>A</sub> = 25°C
Rated DC Blocking		100uA	T <sub>A</sub> = 100°C
Voltage			
Maximum Reverse			
Recovery Time			
UF4001GP-4004GP	$T_{rr}$	50ns	$I_F$ =0.5A, $I_R$ =1.0A,
UF4005GP-4007GP		75ns	I <sub>rr</sub> =0.25A
Typical Junction			
Capacitance			
UF4001GP-4004GP	CJ	20pF	Measured at
UF4005GP-4007GP		10pF	1.0MHz, V <sub>R</sub> =4.0V

1 Amp Glass **Passivated Ultra Fast Recovery Rectifier** 50 to 1000 Volts





DIMENSIONS							
	INCHES		MM				
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				

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

<sup>\*</sup>Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

## UF4001GP thru UF4007GP



FIG.1 - FORWARD CURRENT DERATING CURVE

1.0

0.8

0.8

0.6

0.1

SINGLE PHASE HALF WAVE 60Hz
RESISTIVE OR INDUCTIVE LOAD

0.1

25

50

75

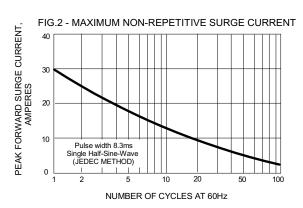
100

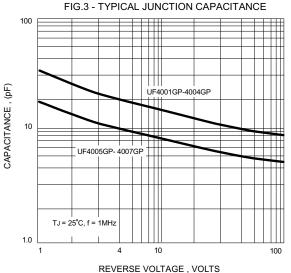
125

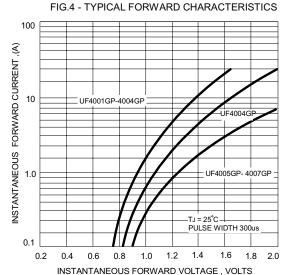
150

175

AMBIENT TEMPERATURE, °C









## **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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