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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)

**Maximum Ratings** 

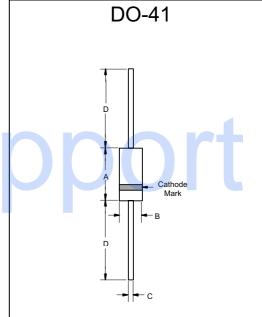
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance 40°C/W

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC 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

Average Forward	I <sub>F(AV)</sub>	1 A	T <sub>A</sub> = 55°C
Current			
Peak Forward Surge	$I_{FSM}$	30A	8.3ms, half sine
Current			ŕ
Maximum			
Instantaneous			
Forward Voltage			
UF4001GP-4003GP	$V_{F}$	1.0 V	$I_{FM} = 1.0A;$
UF4004GP UF4005GP-4007GP	• -	1.3V 1.7V	T <sub>A</sub> = 25°C
Maximum DC		1.7 V	1A - 23 O
		- A	T 0500
Reverse Current At	I <sub>R</sub>	5 uA	$T_A = 25^{\circ}C$
Rated DC Blocking		100uA	T <sub>A</sub> = 100°C
Voltage			
Maximum Reverse			
Recovery Time UF4001GP-4004GP			
UF4001GP-4004GP	$T_{rr}$	50ns	$I_{\rm F}$ =0.5A, $I_{\rm R}$ =1.0A,
UF4005GP-4007GP		75ns	I <sub>rr</sub> =0.25A
Typical Junction			
Capacitance			
UF4001GP-4004GP	$C_{.1}$	20pF	Measured at
UF4005GP-4007GP	- 0	10pF	1.0MHz, V <sub>R</sub> =4.0V

<sup>1</sup> 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

0.6

0.6

0.1

SINGLE PHASE HALF WAVE 60Hz
RESISTIVE OR INDUCTIVE LOAD

0.1

25

50

75

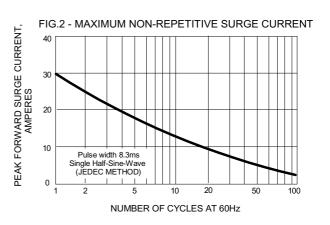
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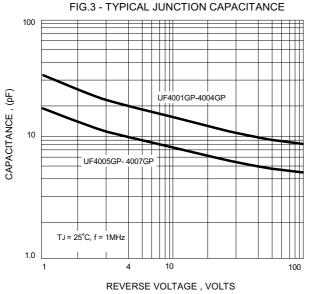
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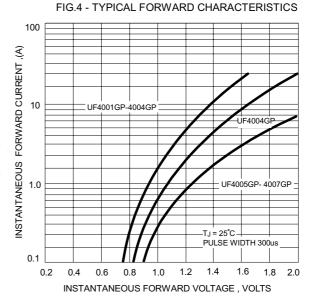
150

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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