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UF4001GP THRU UF4007GP

Features

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

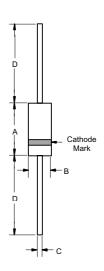
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance 40°C/W

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

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Average Forward Current	$I_{F(AV)}$	1 A	T _A = 55°C
Peak Forward Surge Current	I _{FSM}	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 _{FM} = 1.0A; T _A = 25°C
Maximum DC			
Reverse Current At Rated DC Blocking	I_R	5 uA 100uA	T _A = 25°C T _A = 100°C
Voltage		TOULA	T _A = 100 C
Maximum Reverse			
Recovery Time UF4001GP-4004GP	T_{rr}	50ns	I _F =0.5A, I _R =1.0A,
UF4005GP-4007GP		75ns	I _{rr} =0.25A
Typical Junction			
Capacitance			
UF4001GP-4004GP	\mathbf{C}_{J}	20pF	Measured at
UF4005GP-4007GP		10pF	1.0MHz, V _R =4.0V

DO-41



DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.166	.205	4.10	5.20			
В	.080	.107	2.00	2.70			
O	.028	.034	.70	.90			
D	1.000		25.40				

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

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

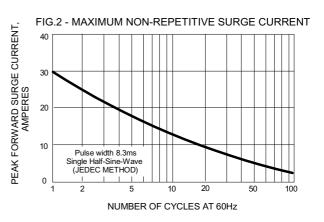
^{*}Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

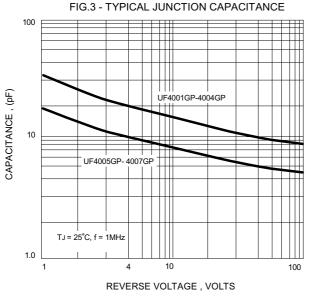
UF4001GP thru UF4007GP

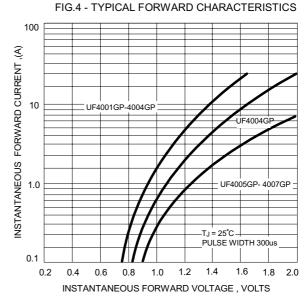


FIG.1 - FORWARD CURRENT DERATING CURVE 1.0 AVERAGE FORWARD CURRENT AMPERES 8.0 0.6 SINGLE PHASE HALF WAVE 60Hz RESISTIVE OR INDUCTIVE LOAD 0.1 L 25

AMBIENT TEMPERATURE, ℃







175

150



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	

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

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