

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
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 40°C/W Junction to Ambient
- Typical Thermal Resistance: 20°C/W Junction to Case
- Typical Thermal Resistance: 15°C/W Junction to Lead

MCC Part 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	600V
UF4006GP	UF4006GP	800V	560V	800V
UF4007GP	UF4007GP	1000V	700V	1000V

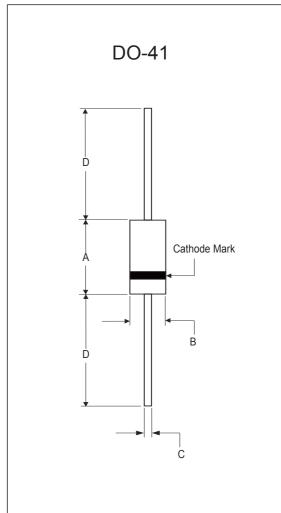
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _A =55°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage			
UF4001GP-UF4003GP UF4004GP UF4005GP-UF4007GP	V _F	1.0V 1.3V 1.7V	I _{FM} =1.0A; T _J =25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 100μA	T _J =25°C; T _J =100°C
Maximum Reverse Recovery Time UF4001GP-UF4004GP UF4005GP-UF4007GP	t _{rr}	50ns 75ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A
Typical Junction Capacitance			Manager at 4 ONALL
UF4001GP-UF4004GP UF4005GP-UF4007GP	С	20pF 10pF	Measured at 1.0MHz V _R =4.0V

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

Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

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



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.160	0.205	4.10	5.20	
В	0.080	0.107	2.00	2.70	Ф
С	0.028	0.035	0.71	0.90	Ф
D	1.000		25.40		



Curve Characteristics

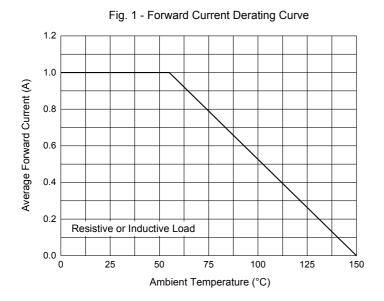


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

35

20

20

10

8.3 ms Single Half Sine-Wave
0
1 10

Number of Cycles at 60 Hz

Fig. 3 - Typical Instantaneous Forward Characteristics

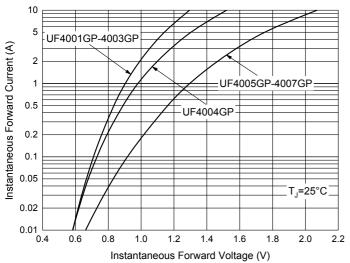
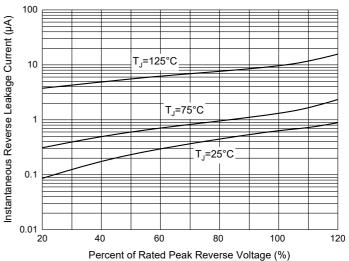


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
(Part Number)-TP	Tape&Reel: 5Kpcs/Reel	
(Part Number)-AP	Ammo Packing: 5Kpcs/Ammo Box	
(Part Number)-BP	Bulk:1Kpcs/Box,50Kpcs/Carton	

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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