

**Micro Commercial Components** 



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# UF4001 THRU UF4007

### 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 +125°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance :60°C/W Junction to Ambient 25°C/W Junction to Lead at 0.375" Lead Length P.C.B. Mounted

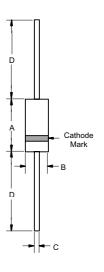
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
UF4001	UF4001	50V	35V	50V
UF4002	UF4002	100V	70V	100V
UF4003	UF4003	200V	140V	200V
UF4004	UF4004	400V	280V	400V
UF4005	UF4005	600V	420V	400V
UF4006	UF4006	800V	560V	800V
UF4007	UF4007	1000V	700V	1000V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	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			
UF4001-4003 UF4004 UF4005-4007	$V_{F}$	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 Rated DC Blocking Voltage	I <sub>R</sub>	5 μΑ 100μΑ	T <sub>A</sub> = 25°C T <sub>A</sub> = 100°C
Maximum Reverse Recovery Time UF4001-4004 UF4005-4007	$T_{rr}$	50ns 75ns	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A
Typical Junction Capacitance UF4001-4004 UF4005-4007	CJ	20pF 10pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

## 1 Amp Ultra Fast Recovery Rectifier 50 to 1000 Volts

## **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		
С	.028	.034	.70	.90		
D	1.000		25.40			

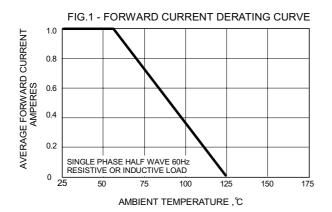
Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

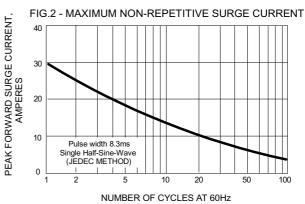
<sup>\*</sup>Pulse Test: Pulse Width 300 sec, Duty Cycle 1%

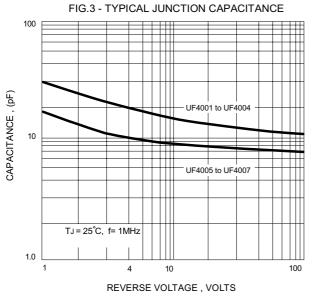
## UF4001 thru UF4007

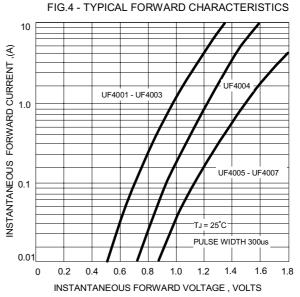


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### Ordering Information:

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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