

**Micro Commercial Components** 

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# **UF4001 THRU UF4007**

### eatures

- Ultra Fast Switching Speed For High Efficiency
- Low Leakage
- Halogen free available upon request by adding suffix "-HF"
- 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

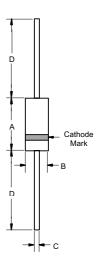
MCC Device Maximum Maximum Maximum Catalog Marking Recurrent **RMS** DC Number Peak Reverse Voltage Blocking Voltage Voltage UF4001 UF4001 50V 35V 50V UF4002 UF4002 100V 100V 70V UF4003 UF4003 200V 140V 200V UF4004 UF4004 400V 280V 400V UF4005 UF4005 600V 420V 600V UF4006 800V UF4006 560V 800V UF4007 UF4007 700V 1000V 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	I <sub>FSM</sub>	30A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
UF4001-4003	$V_{F}$	1.0 V	$I_{EM} = 1.0A;$
UF4004 UF4005-4007	·	1. 3 V 1. 7 V	T <sub>A</sub> = 25°C
Maximum DC			
Reverse Current At	$I_R$	5 μΑ	T <sub>A</sub> = 25°C
Rated DC Blocking		100μΑ	T <sub>A</sub> = 100°C
Voltage			· A
Maximum Reverse			
Recovery Time			
UF4001-4004	$T_{rr}$	50ns	$I_F = 0.5A, I_R = 1.0A,$
UF4005-4007		75ns	I <sub>rr</sub> =0.25A
Typical Junction			
Capacitance			
UF4001-4004	$C_{ m J}$	20pF	Measured at
UF4005-4007		10pF	1.0MHz, V <sub>R</sub> =4.0V

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





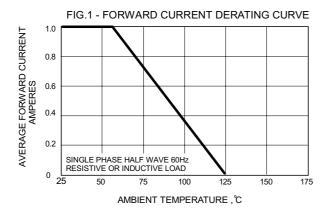
DIMENSIONS							
	INCHES		ММ				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.166	.205	4.10	5.20			
В	.080	.107	2.00	2.70			
С	.028	.034	.70	.90			
D	1.000		25.40				

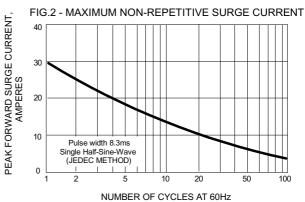
Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

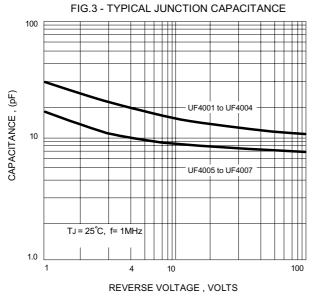
<sup>\*</sup>Pulse Test: Pulse Width 300 sec, Duty Cycle 1%

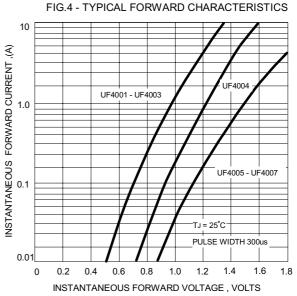
## UF4001 thru UF4007







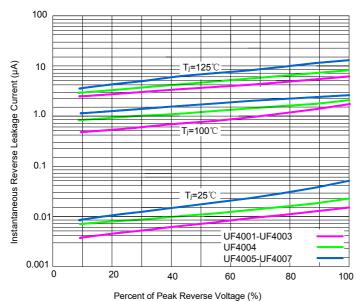




# UF4001 thru UF4007









### 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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