

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

UF4001 THRU UF4007

- 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)

mum 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

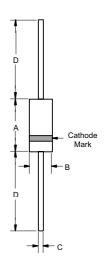
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
UF4001	UF4001	50V	35V	50V
UF4002	UF4002	100V	70V	100V
UF4003	UF4003	200V	140V	200V
UF4004	UF4004	400V	280V	400V
UF4005	UF4005	600V	420V	600V
UF4006	UF4006	800V	560V	800V
UF4007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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1 A	T _A = 55°C
Peak Forward Surge	I _{FSM}	30A	8.3ms, half sine
Current			
Maximum			
Instantaneous			
Forward Voltage			
UF4001-4003 UF4004	V_{F}	1.0 V	$I_{FM} = 1.0A;$
UF4004 UF4005-4007		1.3V 1.7V	T _A = 25°C
Maximum DC			
Reverse Current At	I_R	5 μΑ	T _A = 25°C
Rated DC Blocking		100μΑ	T _A = 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 _{rr} =0.25A
Typical Junction			
Capacitance			
UF4001-4004	$C_{ m J}$	20pF	Measured at
UF4005-4007	, and the second	10pF	1.0MHz, V _R =4.0V

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

DO-41



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			

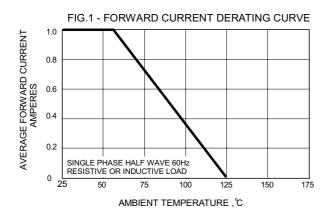
Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

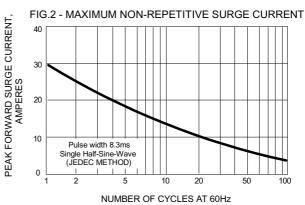
^{*}Pulse Test: Pulse Width 300 sec, Duty Cycle 1%

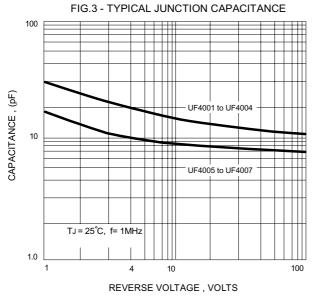
UF4001 thru UF4007

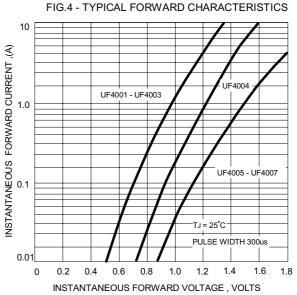


Micro Commercial Components











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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.