



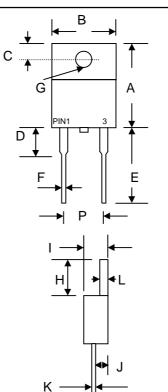
# 8.0A GLASS PASSIVATED ULTRAFAST RECTIFIER

## **Features**

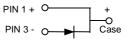
- Glass Passivated Die Construction
- Ultra-Fast Switching
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

#### **Mechanical Data**

- Case: TO-220A, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 2.24 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



	<b>TO 0004</b>					
TO-220A						
Dim	Min	Max				
Α	13.90	15.90				
В	9.80	10.70				
С	2.54	3.43				
D	3.56	4.56				
Е	12.70	14.73				
F	0.51	0.96				
G	3.55 Ø	4.09 Ø				
н	5.75	6.85				
I	4.16	5.00				
J	2.03	2.92				
К	0.30	0.65				
L	1.14	1.40				
Р	4.83	5.33				
All Dimensions in mm						



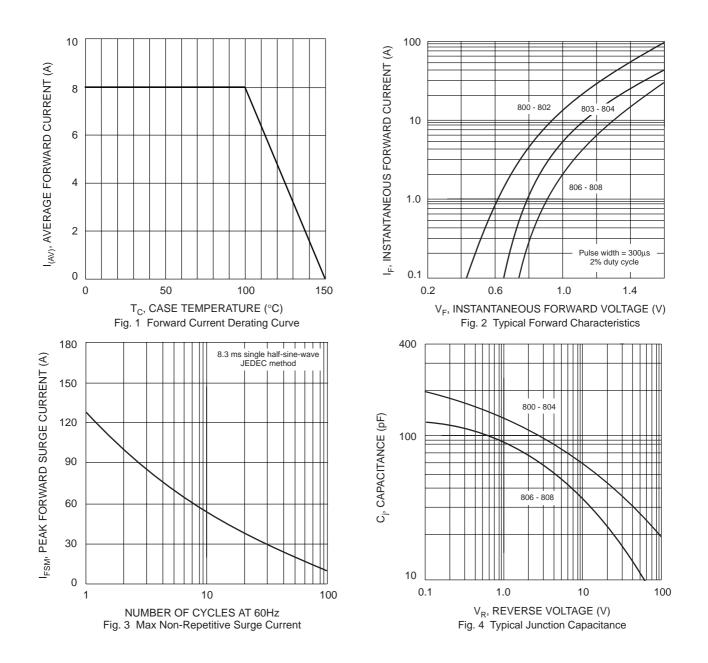
# Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

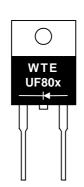
Characteristic	Symbol	UF800	UF801	UF802	UF803	UF804	UF806	UF808	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	300	400	600	800	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	420	560	V
Average Rectified Output Current $@T_c = 100^{\circ}C$		8.0					А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	125						А	
Forward Voltage $@I_F = 8.0A$	Vfm		1.0		1	.3	1	.7	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Iгм	10 500			μA				
Reverse Recovery Time (Note 1)	trr	50 100			00	nS			
Typical Junction Capacitance (Note 2)	Cj	80 50			0	pF			
Operating and Storage Temperature Range	Тј, Тѕтс			-(	65 to +15	50			°C

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



## MARKING INFORMATION



= Manufacturer's Logo
= Device Number
= 0, 1, 2, 3, 4, 6 or 8
= As Marked on Body

## PACKAGING INFORMATION

#### BULK

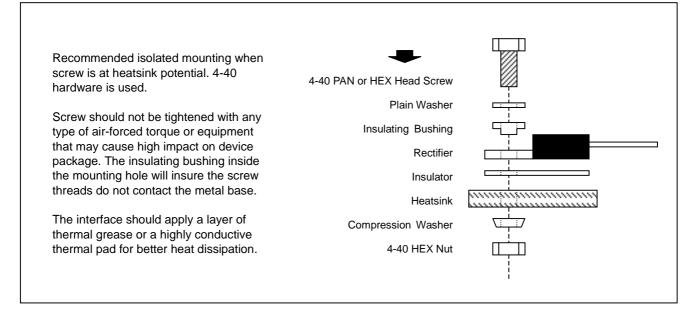
Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
525 x 31 x 6	50	555 x 145 x 95	2,000	572 x 306 x 218	8,000	19.0

WTE

UF80x x Polarity

Note: 1. Anti-static tube, water clear color.

# RECOMMENDED SCREW MOUNTING ARRANGEMENT



#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity		
UF800	TO-220A	50 Units/Tube		
UF801	TO-220A	50 Units/Tube		
UF802	TO-220A	50 Units/Tube		
UF803	TO-220A	50 Units/Tube		
UF804	TO-220A	50 Units/Tube		
UF806	TO-220A	50 Units/Tube		
UF808	TO-220A	50 Units/Tube		

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department. 2.

To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, UF800-LF.

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

We power your everyday.