

UF1600CT - UF1608CT

16A GLASS PASSIVATED DUAL ULTRAFAST RECTIFIER



Features

- Glass Passivated Die Construction
- Ultrafast 50nS and 100nS Recovery Time
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

- Case: TO-220, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 1.9 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 0.6 N.m Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



Κ

TO-220					
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			
-	4.16	5.00			
J	2.03	2.92			
К	0.30	0.65			
L	1.14	1.40			
Р	2.29	2.79			
All Dimensions in mm					



Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

Characteristic	Symbol	UF 1600CT	UF 1601CT	UF 1602CT	UF 1603CT	UF 1604CT	UF 1606CT	UF 1608CT	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 CurrentTotal Device $@T_c = 100^{\circ}C$ Per Diode	lo				16 8.0				A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	125					A		
Forward Voltage per diode $@I_F = 8.0A$	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			μΑ				
Reverse Recovery Time (Note 1)	trr			50			10	00	nS
Typical Junction Capacitance (Note 2)	Сл	85 60					pF		
Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode	R JA R JC	60 3.0						°C/W	
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150					°C		

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

UF1600CT - UF1608CT



© Won-Top Electronics Co., Ltd. Revision: September, 2012





MARKING INFORMATION



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

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

RECOMMENDED SCREW MOUNTING ARRANGEMENT





Product No.	Package Type	Shipping Quantity		
UF1600CT	TO-220	50 Units/Tube		
UF1601CT	TO-220	50 Units/Tube		
UF1602CT	TO-220	50 Units/Tube		
UF1603CT	TO-220	50 Units/Tube		
UF1604CT	TO-220	50 Units/Tube		
UF1606CT	TO-220	50 Units/Tube		
UF1608CT	TO-220	50 Units/Tube		

ORDERING INFORMATION

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

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, UF1600CT-LF.

WON-TOP ELECTRONICS and *we are registered trademarks of Won-Top Electronics Co., Ltd (WTE). 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,

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung 806, 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

