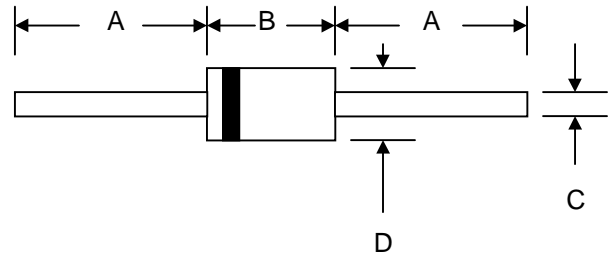


## Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability



## Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**

DO-201AD		
Dim	Min	Max
A	25.4	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in mm		

## Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

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

Characteristic	Symbol	UF	UF	UF	UF	UF	UF	UF	UF	Unit	
		5400G	5401G	5402G	5403G	5404G	5406G	5407G	5408G		
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	100	200	300	400	600	800	1000	V	
Working Peak Reverse Voltage	$V_{RWM}$										
DC Blocking Voltage	$V_R$										
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	210	280	420	560	700	V	
Average Rectified Output Current (Note 1)	$I_O$	3.0								A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	150								A	
Forward Voltage @ $I_F = 3.0\text{A}$	$V_{FM}$	1.0			1.3		1.7			V	
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	$I_{RM}$	10 100								$\mu\text{A}$	
Reverse Recovery Time (Note 2)	$t_{rr}$	50					75				nS
Typical Junction Capacitance (Note 3)	$C_j$	80					50				pF
Operating Temperature Range	$T_j$	-65 to +150								$^\circ\text{C}$	
Storage Temperature Range	$T_{STG}$	-65 to +150								$^\circ\text{C}$	

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case  
2. Measured with  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $IRR = 0.25\text{A}$ . See figure 5.  
3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

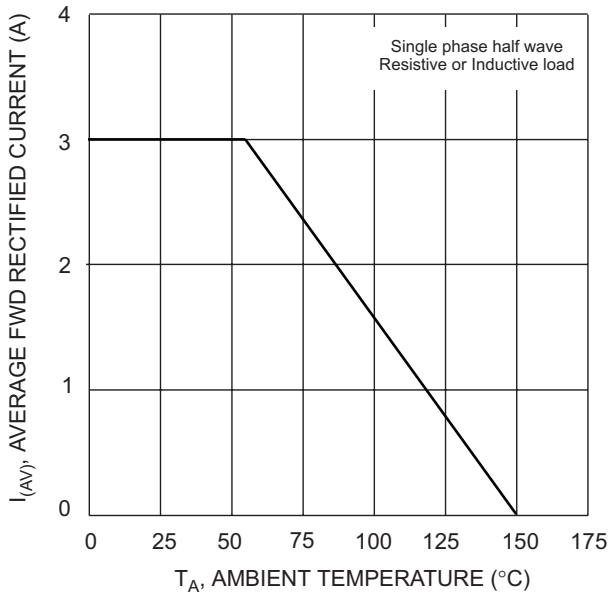


Fig. 1 Forward Current Derating Curve

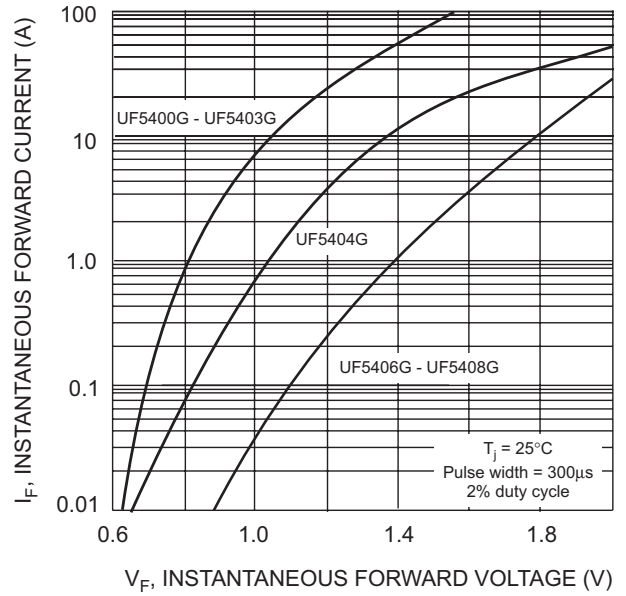


Fig. 2 Typical Forward Characteristics

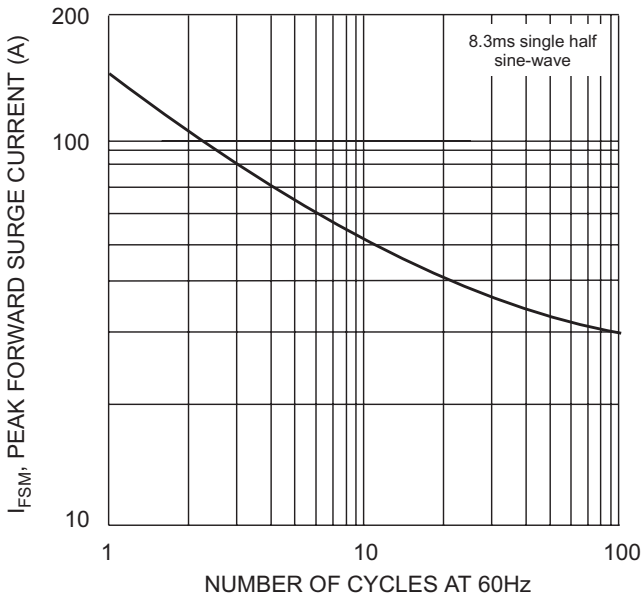


Fig. 3 Peak Forward Surge Current

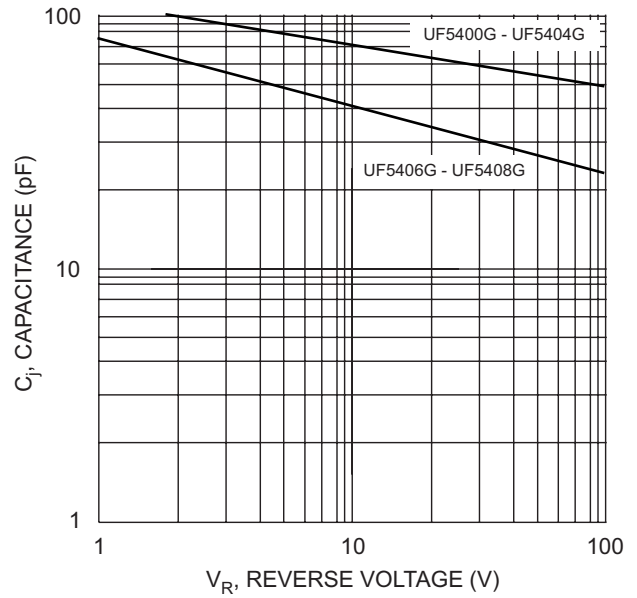
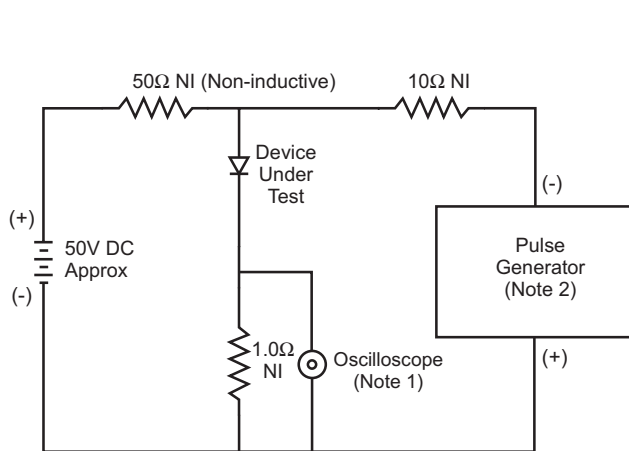


Fig. 4 Typical Junction Capacitance



- Notes:
1. Rise Time = 7.0ns max. Input Impedance = 1.0MΩ, 22pF.
  2. Rise Time = 10ns max. Input Impedance = 50Ω.

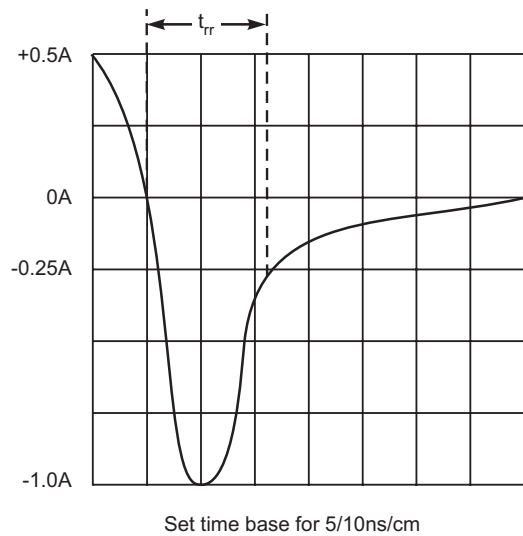
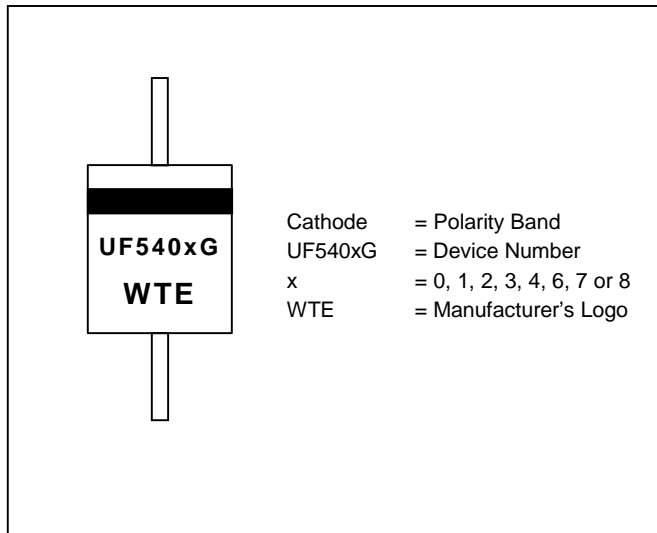
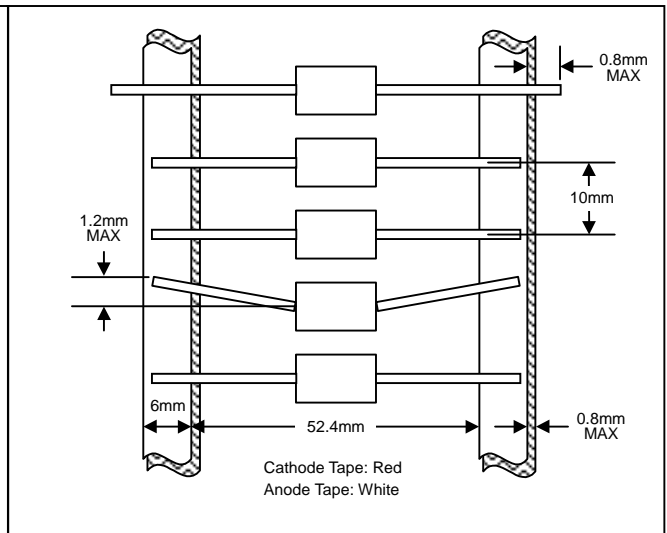


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

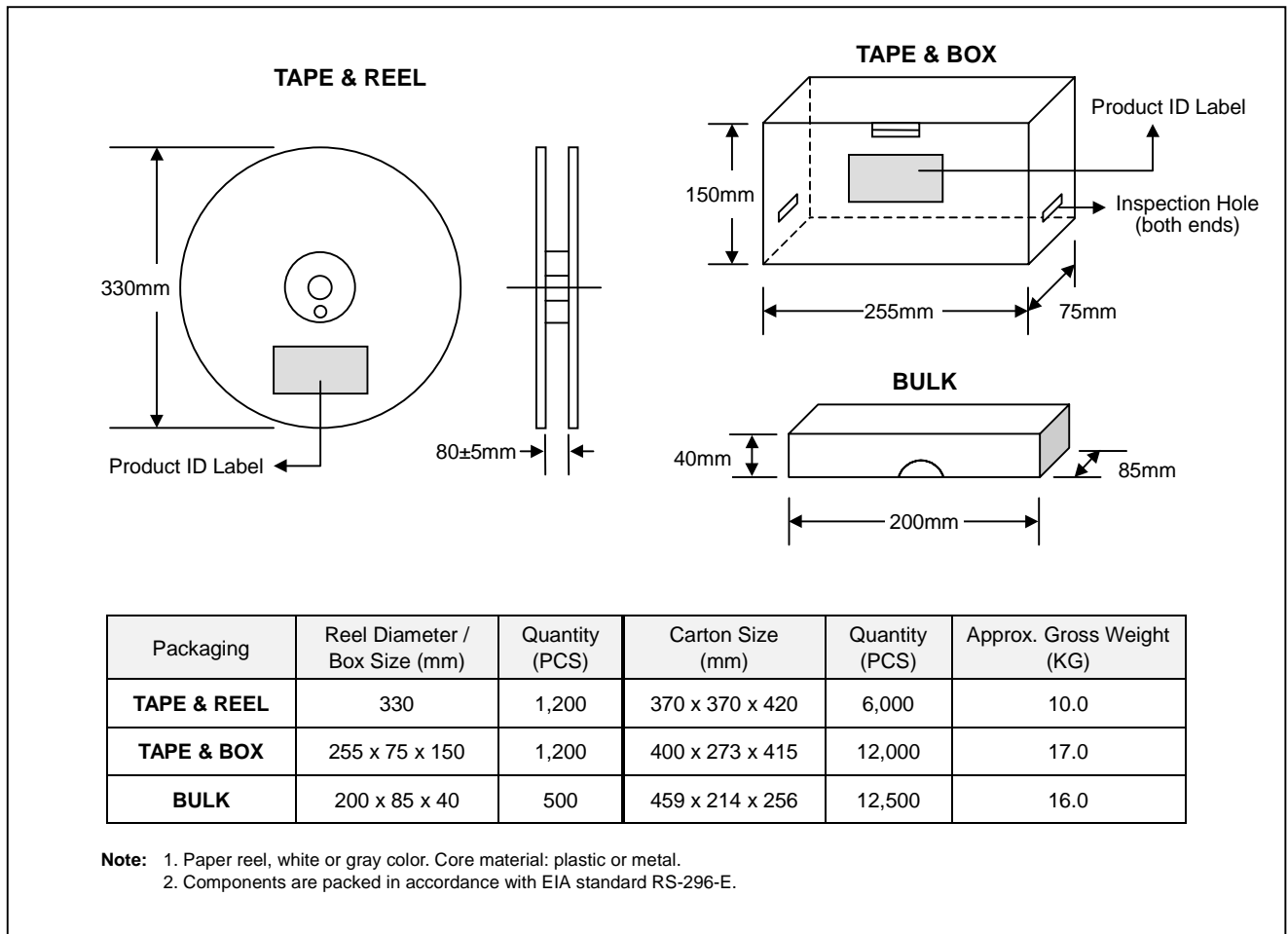
## MARKING INFORMATION



## TAPING SPECIFICATIONS



## PACKAGING INFORMATION



## ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
UF5400G-T3	DO-201AD	1200/Tape & Reel
<b>UF5400G-TB</b>	DO-201AD	1200/Tape & Box
UF5400G	DO-201AD	500 Units/Box
UF5401G-T3	DO-201AD	1200/Tape & Reel
<b>UF5401G-TB</b>	DO-201AD	1200/Tape & Box
UF5401G	DO-201AD	500 Units/Box
UF5402G-T3	DO-201AD	1200/Tape & Reel
<b>UF5402G-TB</b>	DO-201AD	1200/Tape & Box
UF5402G	DO-201AD	500 Units/Box
UF5403G-T3	DO-201AD	1200/Tape & Reel
<b>UF5403G-TB</b>	DO-201AD	1200/Tape & Box
UF5403G	DO-201AD	500 Units/Box
UF5404G-T3	DO-201AD	1200/Tape & Reel
<b>UF5404G-TB</b>	DO-201AD	1200/Tape & Box
UF5404G	DO-201AD	500 Units/Box
UF5406G-T3	DO-201AD	1200/Tape & Reel
<b>UF5406G-TB</b>	DO-201AD	1200/Tape & Box
UF5406G	DO-201AD	500 Units/Box
UF5407G-T3	DO-201AD	1200/Tape & Reel
<b>UF5407G-TB</b>	DO-201AD	1200/Tape & Box
UF5407G	DO-201AD	500 Units/Box
UF5408G-T3	DO-201AD	1200/Tape & Reel
<b>UF5408G-TB</b>	DO-201AD	1200/Tape & Box
UF5408G	DO-201AD	500 Units/Box

1. Products listed in **bold** are WTE **Preferred** devices.
2. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
3. **To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, UF5400G-TB-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.*