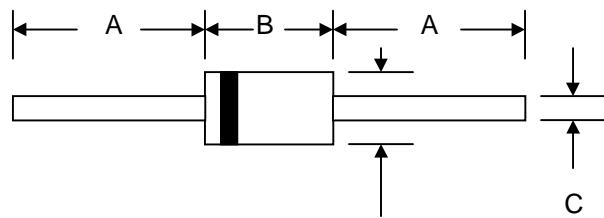


### Features

- Diffused Junction
- 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 $\text{@T}_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	UF 5400	UF 5401	UF 5402	UF 5403	UF 5404	UF 5406	UF 5407	UF 5408	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>									
Working Peak Reverse Voltage	V <sub>RWM</sub>	50	100	200	300	400	600	800	1000	V
DC Blocking Voltage	V <sub>R</sub>									
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	210	280	420	560	700	V
Average Rectified Output Current (Note 1)	I <sub>O</sub>									A
$\text{@T}_A = 55^\circ\text{C}$										
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>									A
Forward Voltage $\text{@I}_F = 3.0\text{A}$	V <sub>FM</sub>				1.0	1.3	1.7			V
Peak Reverse Current $\text{@T}_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage $\text{@T}_A = 100^\circ\text{C}$	I <sub>RM</sub>				10	100				µA
Reverse Recovery Time (Note 2)	t <sub>rr</sub>				50		75			nS
Typical Junction Capacitance (Note 3)	C <sub>j</sub>				80		50			pF
Operating Temperature Range	T <sub>j</sub>						-65 to +125			°C
Storage Temperature Range	T <sub>STG</sub>						-65 to +150			°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.

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

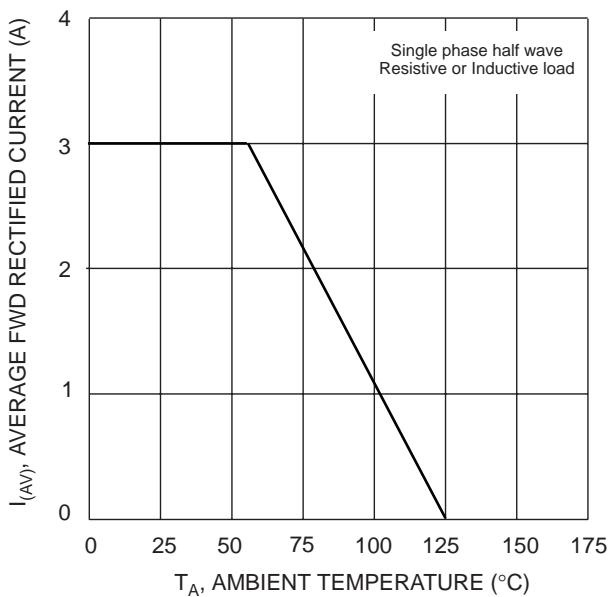


Fig. 1 Forward Current Derating Curve

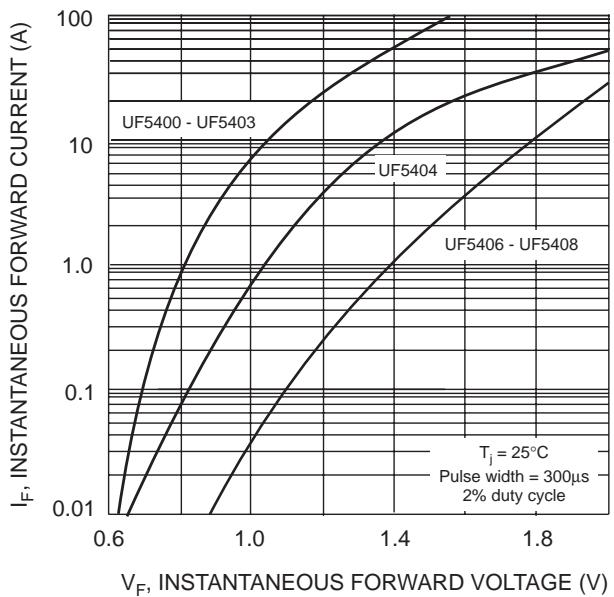


Fig. 2 Typical Forward Characteristics

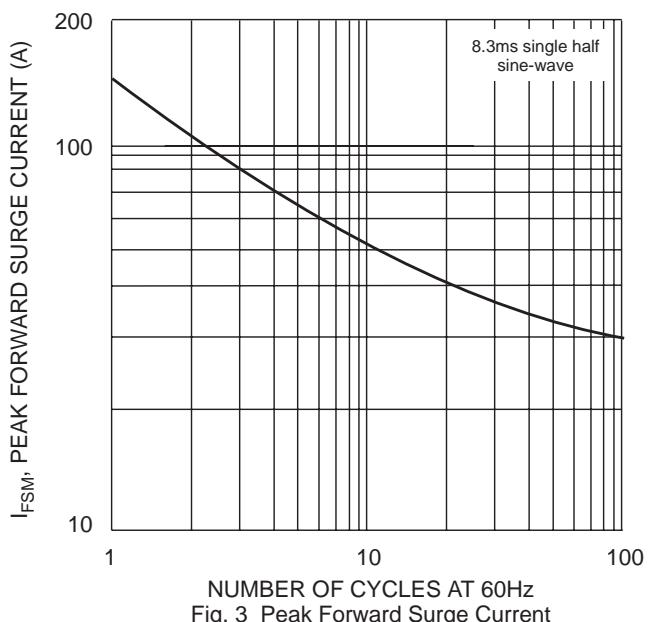


Fig. 3 Peak Forward Surge Current

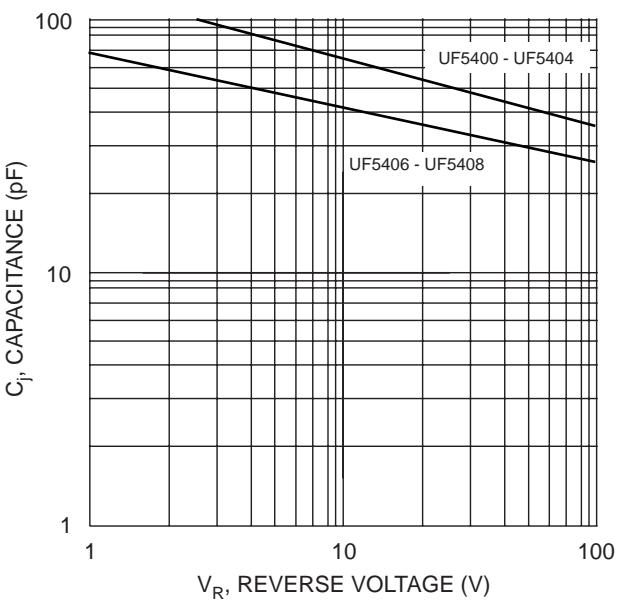


Fig. 4 Typical Junction Capacitance

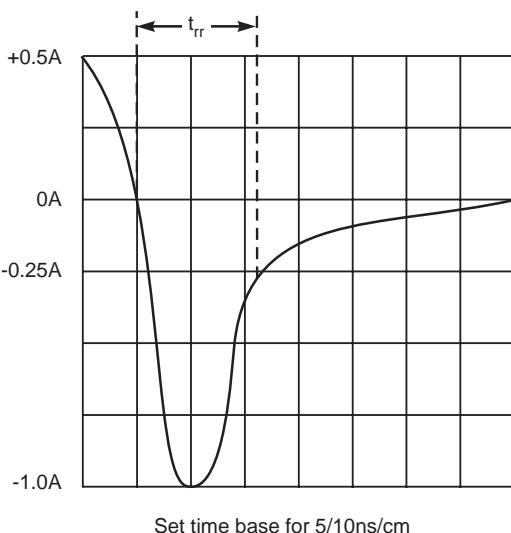
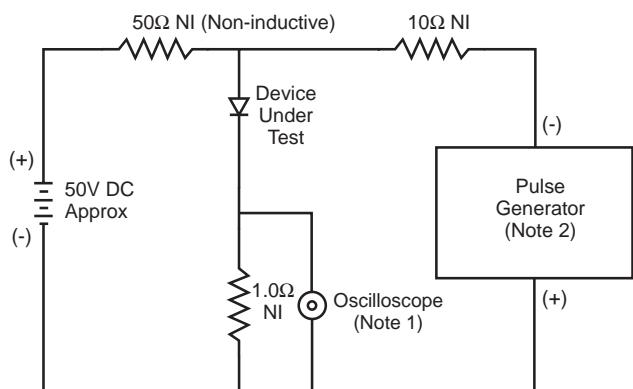
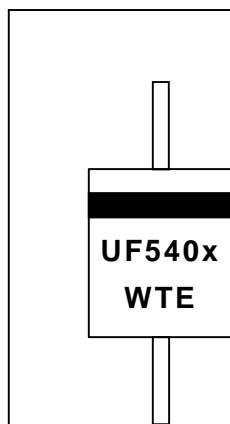


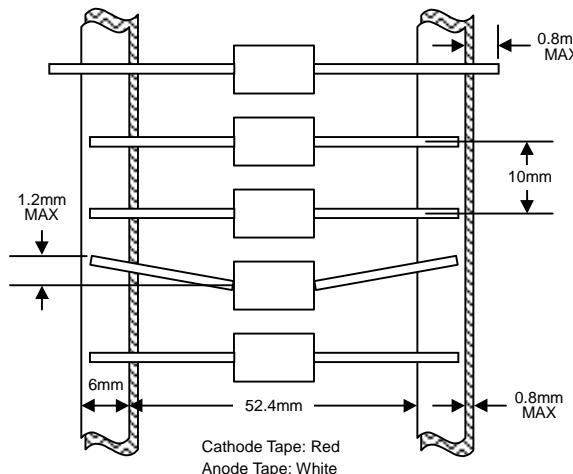
Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

## MARKING INFORMATION



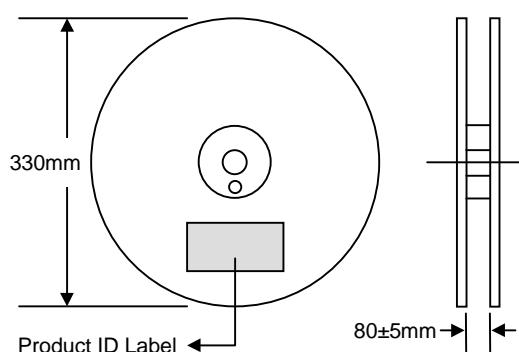
Cathode = Polarity Band  
 UF540x = Device Number  
 x = 0, 1, 2, 3, 4, 6, 7 or 8  
 WTE = Manufacturer's Logo

## TAPING SPECIFICATIONS

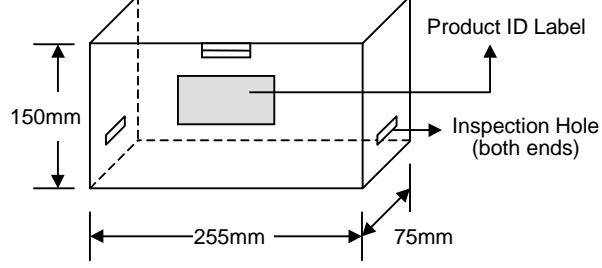


## PACKAGING INFORMATION

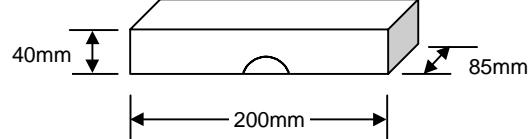
### TAPE & REEL



### TAPE & BOX



### BULK



Packaging	Reel Diameter / Box Size (mm)	Quantity (PCS)	Carton Size (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
TAPE & REEL	330	1,200	370 x 370 x 420	6,000	10.0
TAPE & BOX	255 x 75 x 150	1,200	400 x 273 x 415	12,000	17.0
BULK	200 x 85 x 40	500	459 x 214 x 256	12,500	16.0

**Note:** 1. Paper reel, white or gray color. Core material: plastic or metal.  
 2. Components are packed in accordance with EIA standard RS-296-E.

## ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
UF5400-T3	DO-201AD	1200/Tape & Reel
<b>UF5400-TB</b>	DO-201AD	1200/Tape & Box
UF5400	DO-201AD	500 Units/Box
UF5401-T3	DO-201AD	1200/Tape & Reel
<b>UF5401-TB</b>	DO-201AD	1200/Tape & Box
UF5401	DO-201AD	500 Units/Box
UF5402-T3	DO-201AD	1200/Tape & Reel
<b>UF5402-TB</b>	DO-201AD	1200/Tape & Box
UF5402	DO-201AD	500 Units/Box
UF5403-T3	DO-201AD	1200/Tape & Reel
<b>UF5403-TB</b>	DO-201AD	1200/Tape & Box
UF5403	DO-201AD	500 Units/Box
UF5404-T3	DO-201AD	1200/Tape & Reel
<b>UF5404-TB</b>	DO-201AD	1200/Tape & Box
UF5404	DO-201AD	500 Units/Box
UF5406-T3	DO-201AD	1200/Tape & Reel
<b>UF5406-TB</b>	DO-201AD	1200/Tape & Box
UF5406	DO-201AD	500 Units/Box
UF5407-T3	DO-201AD	1200/Tape & Reel
<b>UF5407-TB</b>	DO-201AD	1200/Tape & Box
UF5407	DO-201AD	500 Units/Box
UF5408-T3	DO-201AD	1200/Tape & Reel
<b>UF5408-TB</b>	DO-201AD	1200/Tape & Box
UF5408	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, UF5400-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.

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**Email:** sales@wontop.com

**Internet:** http://www.wontop.com

We power your everyday.