

HER301 – HER308 🏭 🔁

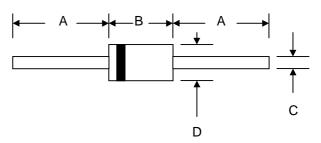
# **3.0A ULTRAFAST DIODE**

#### 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			
Α	25.4	—			
В	7.20	9.50			
С	1.20	1.30			
D	4.80	5.30			
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	HER 301	HER 302	HER 303	HER 304	HER 305	HER 306	HER 307	HER 308	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	300	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	210	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_A = 55^{\circ}C$	lo	3.0					А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150					A			
Forward Voltage $@I_F = 3.0A$	Vfm	1.0 1.3 1.7					V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	10 100					μA			
Reverse Recovery Time (Note 2)	trr	50 75				nS				
Typical Junction Capacitance (Note 3)	Cj	80 50			pF					
Operating Temperature Range	Tj	-65 to +125					°C			
Storage Temperature Range	Тѕтс	-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.

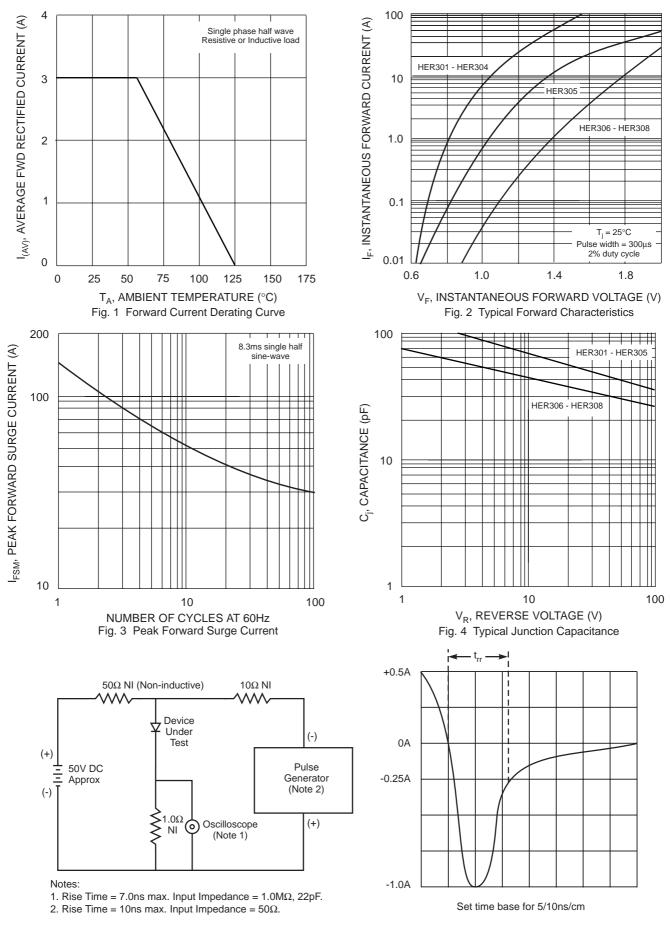
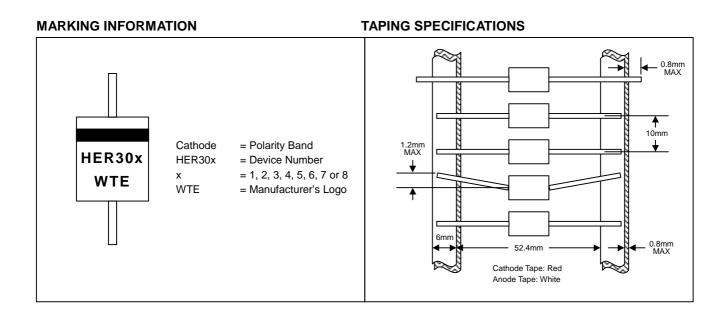
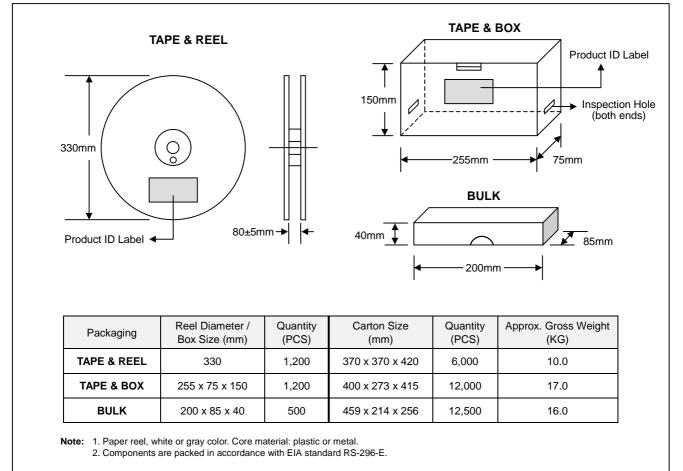


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit



## PACKAGING INFORMATION



Product No.	Package Type	Shipping Quantity				
HER301-T3	DO-201AD	1200/Tape & Reel				
HER301-TB	DO-201AD	1200/Tape & Box				
HER301	DO-201AD	500 Units/Box				
HER302-T3	DO-201AD	1200/Tape & Reel				
HER302-TB	DO-201AD	1200/Tape & Box				
HER302	DO-201AD	500 Units/Box				
HER303-T3	DO-201AD	1200/Tape & Reel				
HER303-TB	DO-201AD	1200/Tape & Box				
HER303	DO-201AD	500 Units/Box				
HER304-T3	DO-201AD	1200/Tape & Reel				
HER304-TB	DO-201AD	1200/Tape & Box				
HER304	DO-201AD	500 Units/Box				
HER305-T3	DO-201AD	1200/Tape & Reel				
HER305-TB	DO-201AD	1200/Tape & Box				
HER305	DO-201AD	500 Units/Box				
HER306-T3	DO-201AD	1200/Tape & Reel				
HER306-TB	DO-201AD	1200/Tape & Box				
HER306	DO-201AD	500 Units/Box				
HER307-T3	DO-201AD	1200/Tape & Reel				
HER307-TB	DO-201AD	1200/Tape & Box				
HER307	DO-201AD	500 Units/Box				
HER308-T3	DO-201AD	1200/Tape & Reel				
HER308-TB	DO-201AD	1200/Tape & Box				
HER308	DO-201AD	500 Units/Box				

#### **ORDERING INFORMATION**

Products listed in **bold** are WTE **Preferred** devices. 1 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, HER301-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.