

HER101 – HER108 🎎 🔁

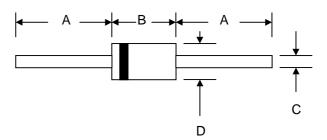
# **1.0A ULTRAFAST DIODE**

### Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

### **Mechanical Data**

- Case: DO-41, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.34 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-41					
Dim	Min	Max			
Α	25.4	—			
В	4.06	5.21			
С	0.71	0.864			
D	2.00	2.72			
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 101	HER 102	HER 103	HER 104	HER 105	HER 106	HER 107	HER 108	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	1.0				A				
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30				A				
Forward Voltage $@I_F = 1.0A$	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	5.0 100				μΑ				
Reverse Recovery Time (Note 2)	trr	50 75			nS					
Typical Junction Capacitance (Note 3)	Cj	20 15			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.

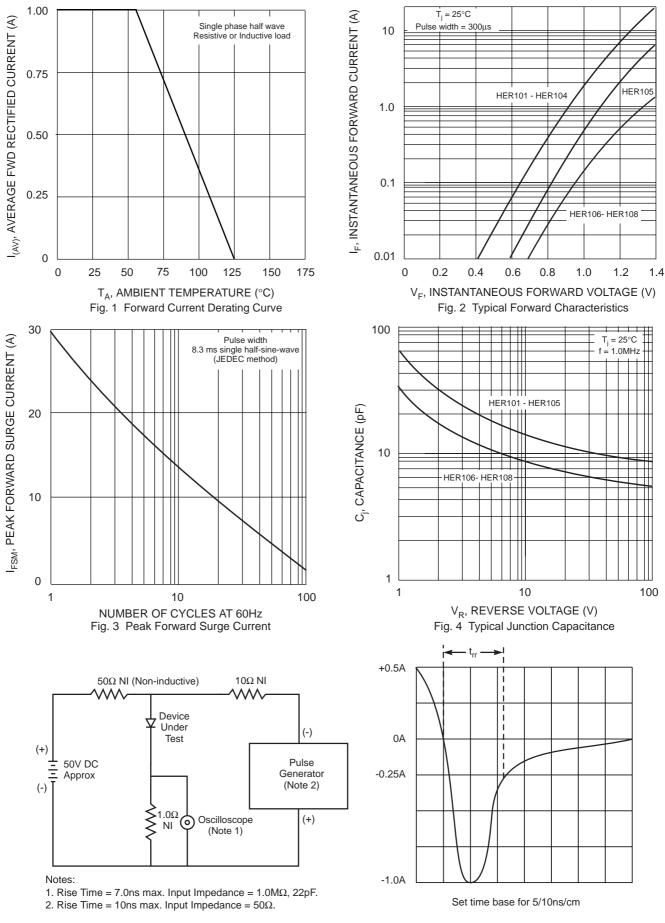
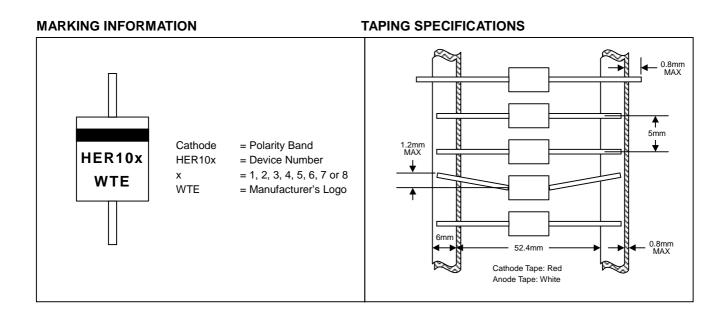
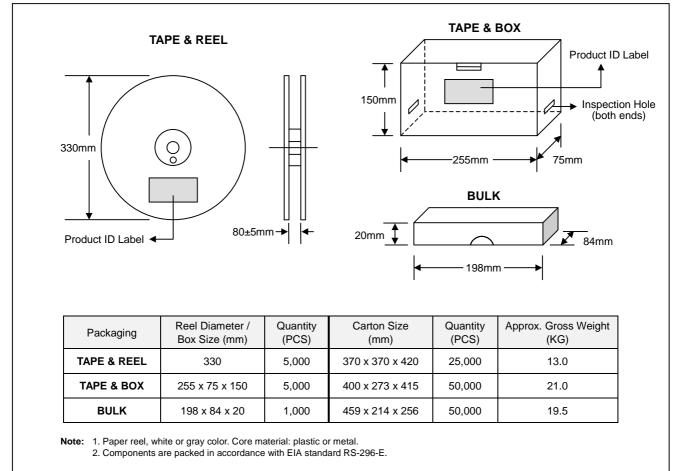


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit



### PACKAGING INFORMATION



Product No.	Package Type	Shipping Quantity				
HER101-T3	DO-41	5000/Tape & Reel				
HER101-TB	DO-41	5000/Tape & Box				
HER101	DO-41	1000 Units/Box				
HER102-T3	DO-41	5000/Tape & Reel				
HER102-TB	DO-41	5000/Tape & Box				
HER102	DO-41	1000 Units/Box				
HER103-T3	DO-41	5000/Tape & Reel				
HER103-TB	DO-41	5000/Tape & Box				
HER103	DO-41	1000 Units/Box				
HER104-T3	DO-41	5000/Tape & Reel				
HER104-TB	DO-41	5000/Tape & Box				
HER104	DO-41	1000 Units/Box				
HER105-T3	DO-41	5000/Tape & Reel				
HER105-TB	DO-41	5000/Tape & Box				
HER105	DO-41	1000 Units/Box				
HER106-T3	DO-41	5000/Tape & Reel				
HER106-TB	DO-41	5000/Tape & Box				
HER106	DO-41	1000 Units/Box				
HER107-T3	DO-41	5000/Tape & Reel				
HER107-TB	DO-41	5000/Tape & Box				
HER107	DO-41	1000 Units/Box				
HER108-T3	DO-41	5000/Tape & Reel				
HER108-TB	DO-41	5000/Tape & Box				
HER108	DO-41	1000 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, HER101-TB-LF

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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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