

HER101 − HER108 Rohs

1.0A ULTRAFAST DIODE

Features

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

D

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_A=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°C	lo	1.0					Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	30					А			
Forward Voltage @I _F = 1.0A	VFM	1.0 1.3 1.7					V			
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	lгм	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.

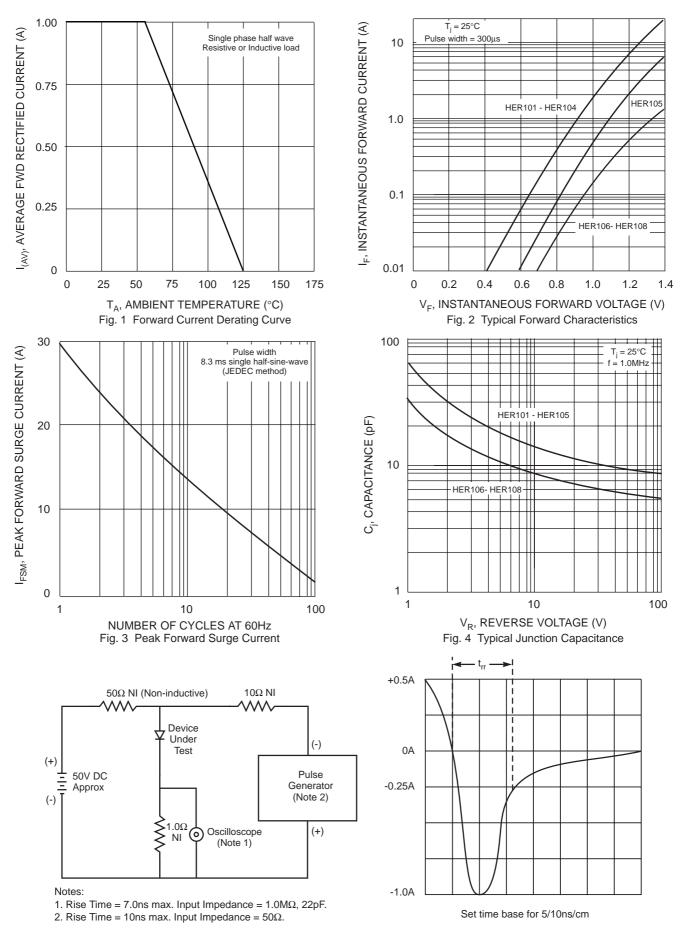
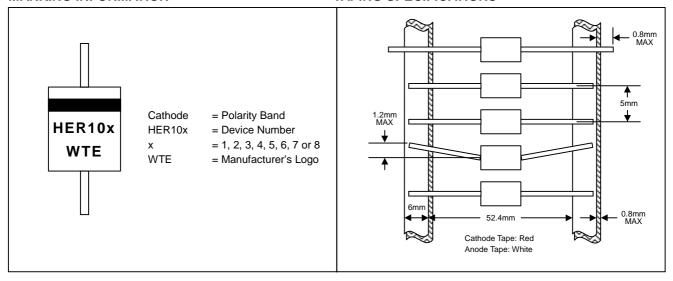
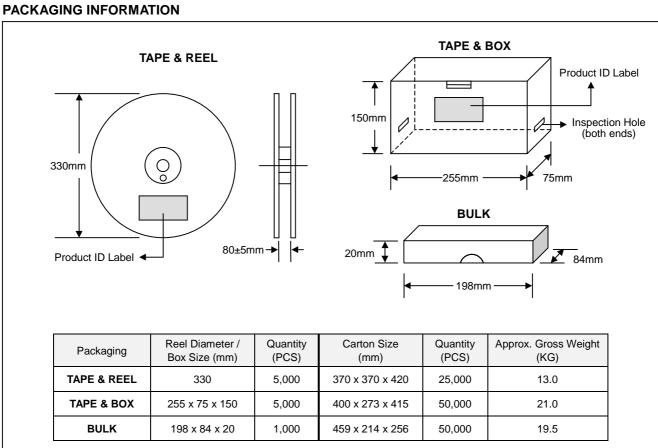


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

MARKING INFORMATION

TAPING SPECIFICATIONS





Note: 1. Paper reel, white or gray color. Core material: plastic or metal.

2. Components are packed in accordance with $\dot{\text{EIA}}$ standard RS-296-E.

ORDERING 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			

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