

# HER101G – HER108G



# 1.0A GLASS PASSIVATED ULTRAFAST DIODE

#### **Features**

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

# A B A C C

# 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: AnyMarking: 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 101G	HER 102G	HER 103G	HER 104G	HER 105G	HER 106G	HER 107G	HER 108G	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 <sub>A</sub> = 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 <sub>F</sub> = 1.0A	VFM	1.0 1.3				1.7		V		
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	lгм	5.0 100					μA			
Reverse Recovery Time (Note 2)	trr	50 75				nS				
Typical Junction Capacitance (Note 3)	Cj	20 15				pF				
Operating Temperature Range	Tj	-65 to +150				°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.

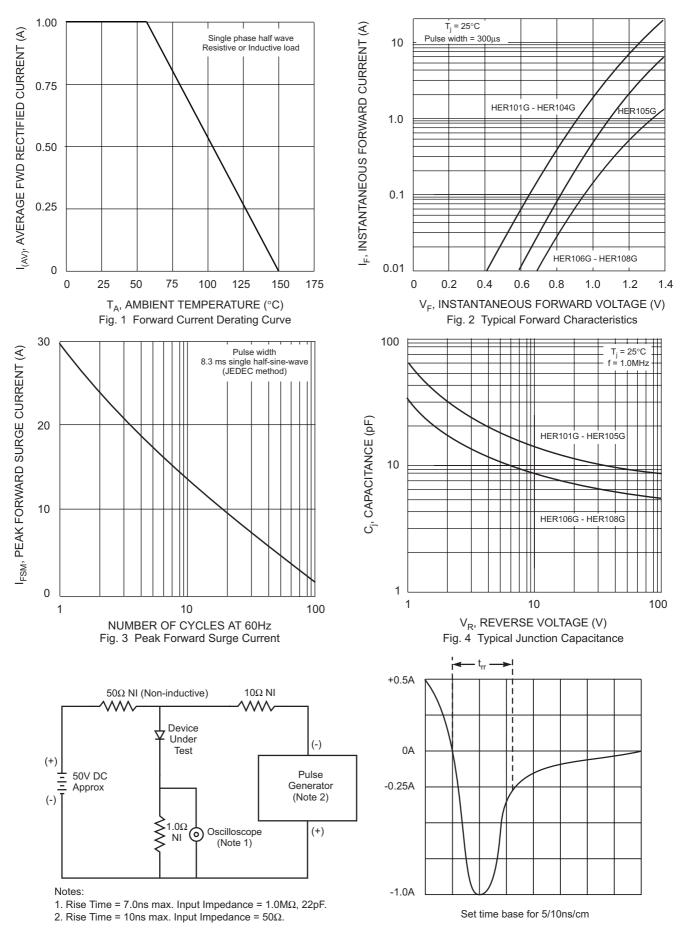
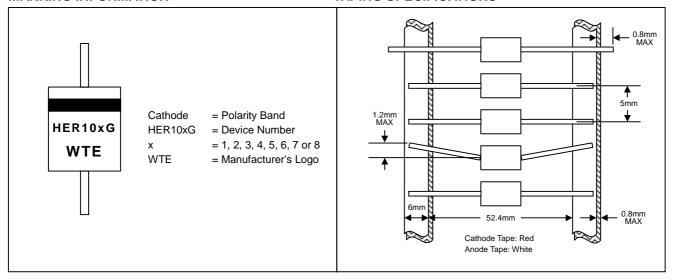


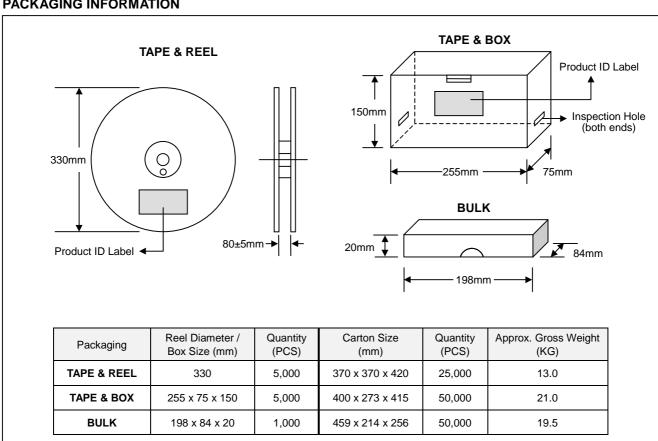
Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

### **MARKING INFORMATION**

## TAPING SPECIFICATIONS



### **PACKAGING INFORMATION**



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			
HER101G-T3	DO-41	5000/Tape & Reel			
HER101G-TB	DO-41	5000/Tape & Box			
HER101G	DO-41	1000 Units/Box			
HER102G-T3	DO-41	5000/Tape & Reel			
HER102G-TB	DO-41	5000/Tape & Box			
HER102G	DO-41	1000 Units/Box			
HER103G-T3	DO-41	5000/Tape & Reel			
HER103G-TB	DO-41	5000/Tape & Box			
HER103G	DO-41	1000 Units/Box			
HER104G-T3	DO-41	5000/Tape & Reel			
HER104G-TB	DO-41	5000/Tape & Box			
HER104G	DO-41	1000 Units/Box			
HER105G-T3	DO-41	5000/Tape & Reel			
HER105G-TB	DO-41	5000/Tape & Box			
HER105G	DO-41	1000 Units/Box			
HER106G-T3	DO-41	5000/Tape & Reel			
HER106G-TB	DO-41	5000/Tape & Box			
HER106G	DO-41	1000 Units/Box			
HER107G-T3	DO-41	5000/Tape & Reel			
HER107G-TB	DO-41	5000/Tape & Box			
HER107G	DO-41	1000 Units/Box			
HER108G-T3	DO-41	5000/Tape & Reel			
HER108G-TB	DO-41	5000/Tape & Box			
HER108G	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, HER101G-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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