

# **HER151 - HER158**

## 1.5A HIGH EFFICIENCY RECTIFIER

#### **Features**

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

#### **Mechanical Data**

Case: Molded Plastic

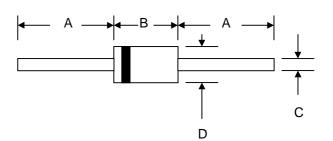
Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: Cathode Band

• Weight: 0.40 grams (approx.)

Mounting Position: Any

Marking: Type Number



DO-15					
Dim	Min	Max			
Α	25.4	_			
В	5.50	7.62			
С	0.71	0.864			
D	2.60	3.60			
All Dimensions in mm					

### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	HER 151	HER 152	HER 153	HER 154	HER 155	HER 156	HER 157	HER 158	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	300	400	600	800	1000	٧
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	1.5					Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50					Α			
Forward Voltage $@I_F = 1.5A$	VFM	1.0 1.3 1.7					V			
	IRM	5.0 100					μΑ			
Reverse Recovery Time (Note 2)	trr	50 75				nS				
Typical Junction Capacitance (Note 3)	Cj	50 30				pF				
Operating Temperature Range	Tj	-65 to +125					°C			
Storage Temperature Range	Тѕтс	-65 to +150				°C				

#### \*Glass passivated forms are available upon request

- 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.

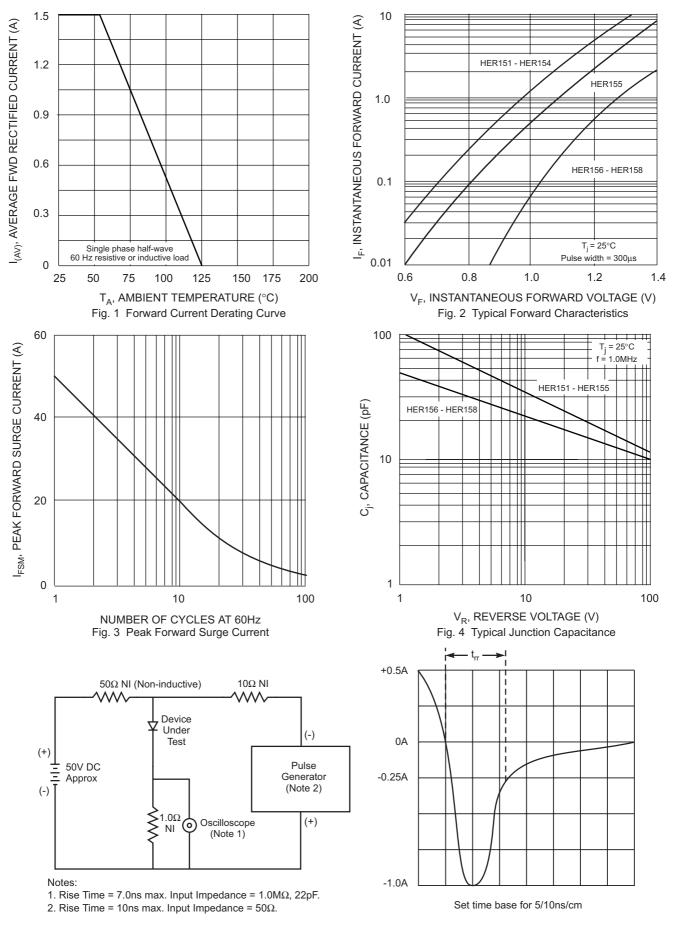


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

#### **ORDERING INFORMATION**

Product No.◆	Package Type	Shipping Quantity				
HER151-T3	DO-15	4000/Tape & Reel				
HER151-TB	DO-15	3000/Tape & Box				
HER151	DO-15	1000 Units/Box				
HER152-T3	DO-15	4000/Tape & Reel				
HER152-TB	DO-15	3000/Tape & Box				
HER152	DO-15	1000 Units/Box				
HER153-T3	DO-15	4000/Tape & Reel				
HER153-TB	DO-15	3000/Tape & Box				
HER153	DO-15	1000 Units/Box				
HER154-T3	DO-15	4000/Tape & Reel				
HER154-TB	DO-15	3000/Tape & Box				
HER154	DO-15	1000 Units/Box				
HER155-T3	DO-15	4000/Tape & Reel				
HER155-TB	DO-15	3000/Tape & Box				
HER155	DO-15	1000 Units/Box				
HER156-T3	DO-15	4000/Tape & Reel				
HER156-TB	DO-15	3000/Tape & Box				
HER156	DO-15	1000 Units/Box				
HER157-T3	DO-15	4000/Tape & Reel				
HER157-TB	DO-15	3000/Tape & Box				
HER157	DO-15	1000 Units/Box				
HER158-T3	DO-15	4000/Tape & Reel				
HER158-TB	DO-15	3000/Tape & Box				
HER158	DO-15	1000 Units/Box				

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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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.

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



Products listed in **bold** are WTE **Preferred** devices.

T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.