



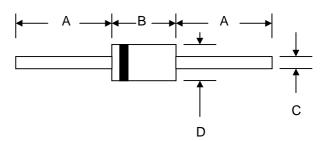
# **1.5A ULTRAFAST DIODE**

#### Features

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

### **Mechanical Data**

- Case: DO-15, 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
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



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 @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 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	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	1.5					А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50					A			
Forward Voltage $@I_F = 1.5A$	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					μA			
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				

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.

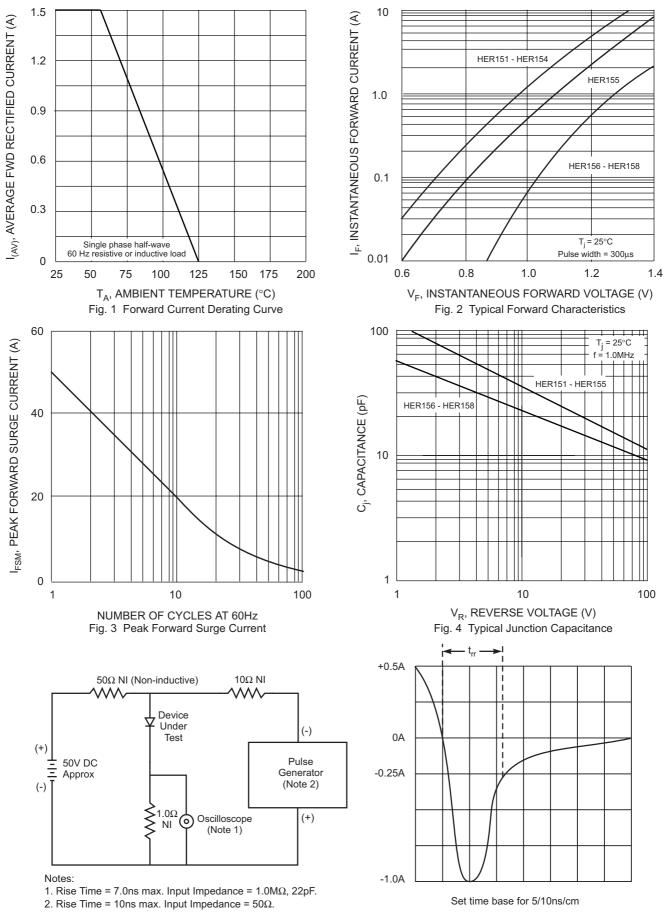
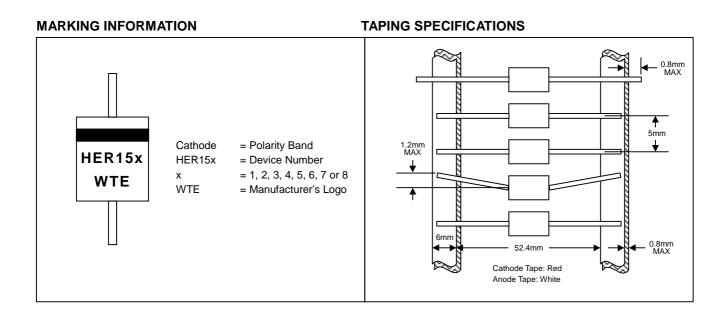
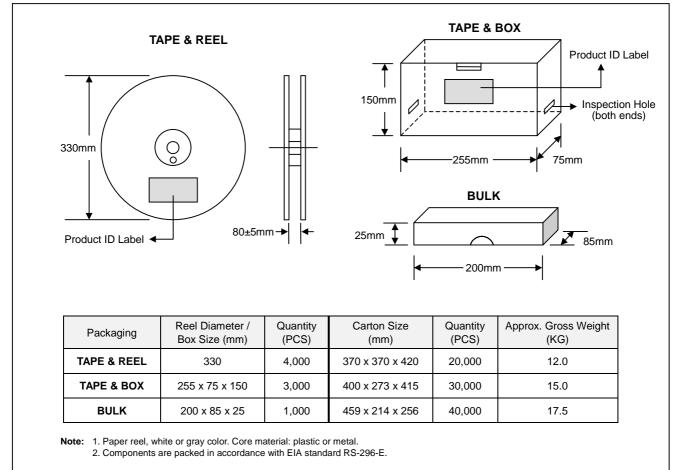


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit



### PACKAGING INFORMATION



Product No.	Package Type	Shipping Quantity
R151-T3	DO-15	4000/Tape & Reel

HER151-T3

Quantity

#### **ORDERING INFORMATION**

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 DO-15 HER156-T3 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

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.

To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix 3. to part number above. For example, HER151-TB-LF

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