



5.0A ULTRAFAST DIODE



Features

- Diffused Junction
- Low Forward Voltage Drop
- High Surge Current Capability
- High Reliability
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

Case: DO-201AD, Molded Plastic

Terminals: Plated Leads Solderable per

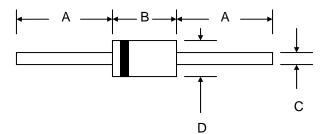
MIL-STD-202, Method 208 Polarity: Cathode Band

Weight: 1.2 grams (approx.)

Mounting Position: Any

Marking: Type NumberLead Free: For RoHS / Lead Free Version,

Add "-LF" Suffix to Part Number, See Page 4



DO-201AD					
Dim	Min	Max			
Α	25.4	ı			
В	7.20	9.50			
С	1.20	1.30			
D	4.80	5.30			
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 501	HER 502	HER 503	HER 504	HER 505	HER 506	HER 507	HER 508	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	5.0					Α			
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	İFSM	150					А			
Forward Voltage $@I_F = 5.0A$	VFM	1.0 1.3		1.7			V			
	lгм	10 100				μΑ				
Reverse Recovery Time (Note 2)	t _{rr}			50				75		nS
Typical Junction Capacitance (Note 3)	Cl	45 36				pF				
Typical Thermal Resistance Junction to Ambient (Note 1) Typical Thermal Resistance Junction to Lead (Note 1)	R JA R JL	20 5.0						°C/W		
Operating Temperature Range	TJ	-65 to +125					°C			
Storage Temperature Range	Тѕтс	-65 to +150					°C			

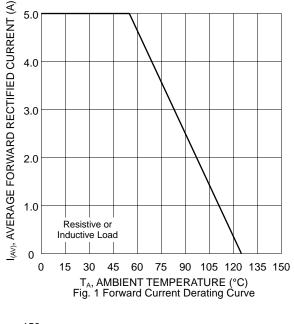
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

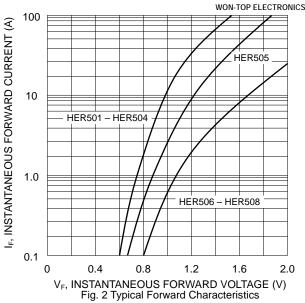
- 2. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.
- 3. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

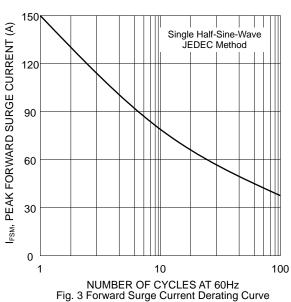
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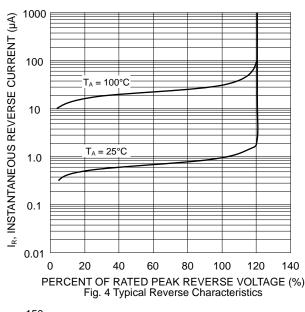
HER501 - HER508

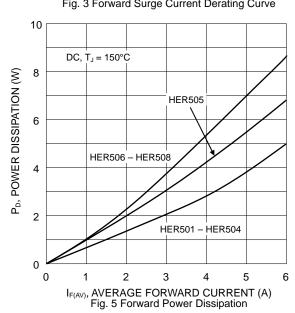


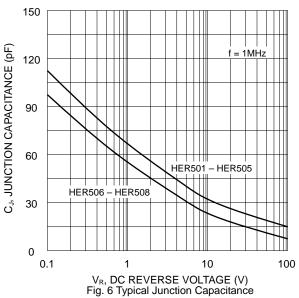








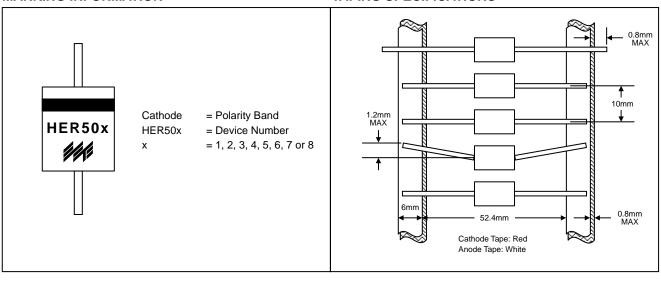




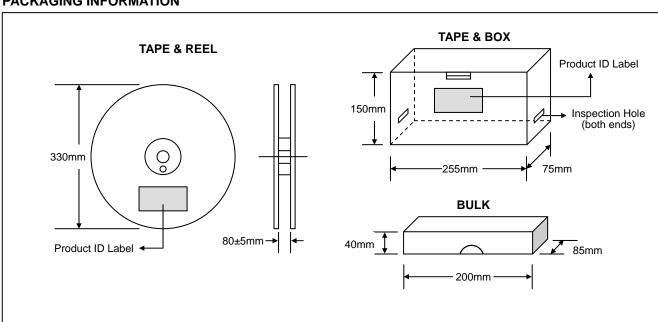


MARKING INFORMATION

TAPING SPECIFICATIONS



PACKAGING INFORMATION



Packaging	Reel Diameter / Box Size (mm)	Quantity (PCS)	Carton Size (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
TAPE & REEL	330	1,200	370 x 370 x 420	6,000	10.0
TAPE & BOX	255 x 75 x 150	1,200	400 x 273 x 415	12,000	17.0
BULK	200 x 85 x 40	500	459 x 214 x 256	12,500	16.0

Note: 1. Paper reel, white or gray color. Core material: plastic or metal.
2. Components are packed in accordance with EIA standard RS-296-E.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
HER50x-T3	DO-201AD	1200/Tape & Reel
HER50x-TB	DO-201AD	1200/Tape & Box
HER50x	DO-201AD	500 Units/Box

- Products listed in **bold** are WTE **Preferred** devices.
- 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 to part number above. For example, HER501-TB-LF. 3.

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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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