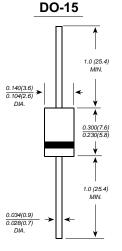
Data Sheet 2634, Rev. -

HER151 THRU HER158

HIGH EFFICIENCY RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.5 Amperes



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- High speed switching for high efficiency
- Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-15 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.014 ounce, 0.40 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	HER 151	HER 152	HER 153	HER 154	HER 155	HER 156	HER 157	HER 158	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	210	280	420	560	700	VOLTS
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	800	1000	VOLTS
Maximum average forward rectified current	l _(AV) 1.5								Amps	
0.375"(9.5mm) lead length at Ta=50℃	I(AV)	1.0								
Peak forward surge current										
8.3ms single half sine-wave superimposed on	I _{FSM}	I _{FSM} 50.0							Amps	
rated load (JEDEC Method)										
Maximum instantaneous forward voltage at 1.5A	VF	1.0		1.3		1.70			Volts	
Maximum DC reverse current Ta=25℃		5.0								
at rated DC blocking voltage T _A =100 ℃	lR	100.0							μΑ	
Maximum reverse recovery time (NOTE 1)	trr	50			70			ns		
Typical junction capacitance (NOTE 2)	Сı	30.0			20.0		pF			
Typical thermal resistance (NOTE 3)	R _{eJA}	50.0						°C/W		
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150							°C	

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

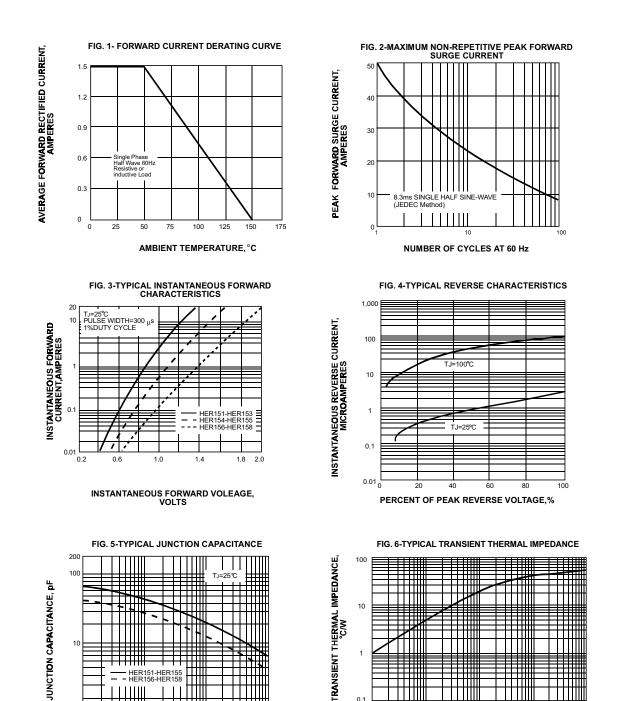
- 221 West Industry Court Deer Park, NY 11729-4681 (631) 586-7600 FAX (631) 242-9798
 - World Wide Web Site http://www.sensitron.com
 E-Mail Address sales@sensitron.com

0.1

REVERSE VOLTAGE, VOLTS

Data Sheet 2634, Rev. -

RATINGS AND CHARACTERISTIC CURVES HER151 THRU HER158



0.1 ___

t,PULSE DURATION,sec.

^{• 221} West Industry Court ☐ Deer Park, NY 11729-4681 ☐ (631) 586-7600 FAX (631) 242-9798 •

[•] World Wide Web Site - http://www.sensitron.com • E-Mail Address - sales@sensitron.com •



TECHNICAL DATA

DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
- 3- In no event shall Sensitron Semiconductor be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). Sensitron Semiconductor assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
- 4- In no event shall Sensitron Semiconductor be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or Sensitron Semiconductor.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of Sensitron Semiconductor.
- 7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.