

HTD 5, 15, 30

175 °C Operation High Voltage Rectifier Assemblies

- Exceptional high temperature Stability to 175 °C
  To 200 °C operation available.
- Consult factory
- Exceptionally low leakage
- Small size
- 5, 15, and 30 KV PRV



Our proprietary diffusion and passivation process provides this unusual stability and no leakage drift at theseelevated temperatures. All diodes are subjected to 10 temperature cycles from -55°C to + 175°C.

EDI TYPE NUMBER	PEAK REVERSE VOL TAGE	DIMENSIONS	
HTD 5	5,000V	SEE FIG.1	
HTD 15	15,000V	SEE FIG.2	
HTD 30	30,000V	SEE FIG.3	

## ELECTRICAL CHARACTERISTICS (at 25 °C Unless Otherwise Specified)

	HTD 5	HTD 15	HTD 30	
Average Rectified Forward Current @ 50 $^{\circ}$ C	50 mA			
Average Rectified Forward Current @ $175^{\circ}C$	5 mA			
Max DC Reverse Current @ PRV @ 25 $^{\circ}$ C	.1 μ <b>Α</b>			
Max DC Reverse Current @ PRV @175 $^{\circ}$ C	15 µA			
Typical DC Reverse Current @ PRV and 175 $^\circ$ C	10 µA			
Max Forward Voltage Drop @ 10mA and 50 $^\circ$ C	25V	75V	150V	
Forward Stability @ 175 °C	See Note 2			
Ambient Operating Temperature Range		-55 °C to+175 °C		
Storage Temperature Range -55 °C to+175 °C		°C		

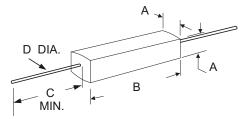
Note1 I<sub>R</sub> at 175°C readings are taken in oil after voltage has been applied to device for 5 minutes.

Note2 All diodes are hot forward swept for forward stability to maximum temperature of 175°C on dynamic display on curve trace oscilloscope.

Higher Temperature version available. Consult factory.

Note: EDI reserves the right to change these specifications at any time without notice.

## MECHANICAL DIMENSIONS



Longer leads available. Consult factory.



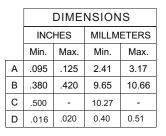
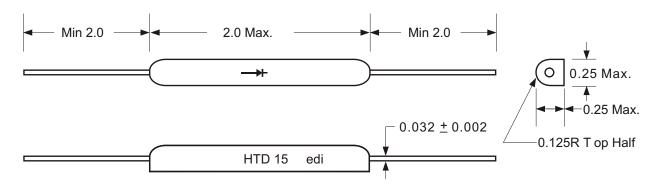


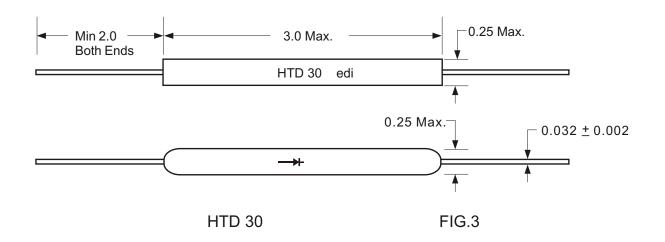
FIG.1

www.DataSheet4U.com



HTD 15

FIG.2



**ELECTRONIC DEVICES, INC.** DESIGNERS AND MANUFACTURERS OF SOLID STATE DEVICES SINCE 1951. 21 GRAY OAKS AVENUE \* YONKERS. NEW YORK 10710 914-965-4400 \* FAX 914-965-5531 \* 1-800-678-0828 e-mail:sales@edidiodes.com \* website:http:// www.edidiodes.com