

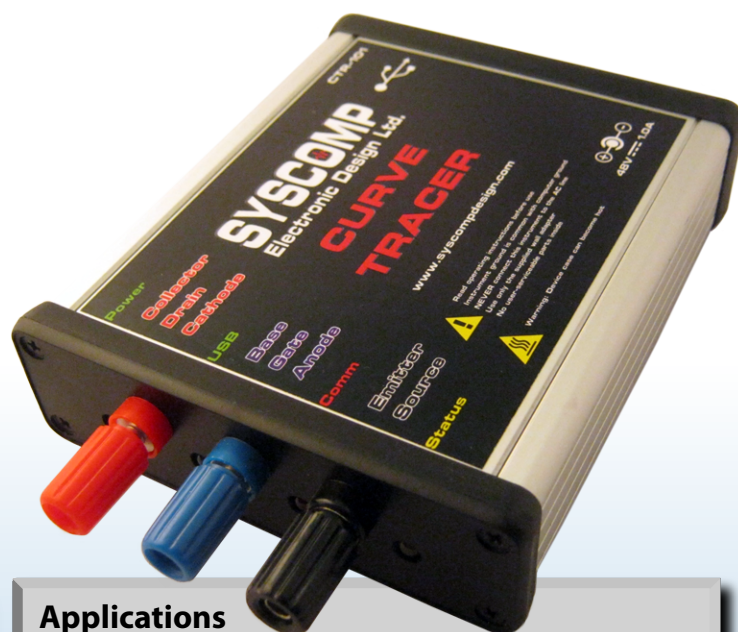
# CTR-101

## Curve Tracer

### PC-Hosted Curve Tracer

#### Key Features

- ✓ Plots device characteristics for diodes, transistors, MOSFETs, JFETs, and more!
- ✓ Up to 30V test voltage at 1A test current
- ✓ True voltage and current source drive amplifiers
- ✓ High resolution measurements
- ✓ Pulsed test mode to minimize device dissipation
- ✓ Auto-scaling real-time plotting during analysis
- ✓ Sample-by-sample power and current limiting
- ✓ Open-source software



#### Applications

##### Education

Measure device characteristics to show students how to interpret the curves and relate them to measuring device parameters.

##### Modelling

Use device curves to construct detailed circuit models for simulation.

##### Device Testing

Determine if a device is functional diagnose its failure mode.

##### Inspection

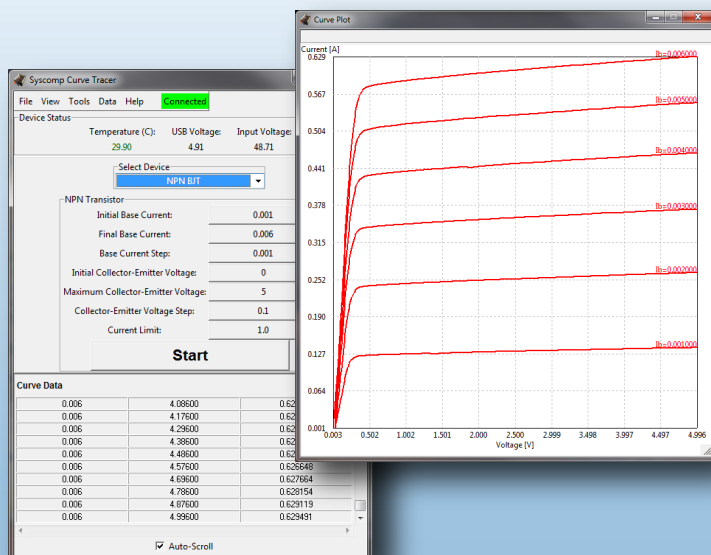
Verify that a device meets manufacturer specifications.

##### Match Devices

Sort devices into matched pairs by comparing characteristics

##### Circuit Development

Determine the principal characteristics of an unknown device or test the response of a circuit network.



Graphical User Interface

#### Specifications

- ▶ Emitter/Source Output: 30V, 9.5mV resolution
- ▶ Collector/Drain Output: 30V, 9.5mV resolution
- ▶ Base/Gate Output:
  - Current output low range: 0 to 1mA, 2uA resolution
  - Current output high range: 0 to 1A, 200uA resolution
  - Voltage range: 0-30V, 9.5mV resolution, Rint=4700Ω
- ▶ Thermal and over-current protection
- ▶ Dimensions: 4.125 x 1.3 x 6" (105 x 33 x 110 mm)
- ▶ Wall Adapter 48VDC/1A Switching Supply
  - CE, (C)UL Approved
  - 1.9 x 1.3 x 4.5" (48 x 32 x 114mm)

#### Compatibility

- ✓ Windows 2000/XP/Vista/7/8
- ✓ Linux
- ✓ Mac OS X

**SYSCOMP**  
Electronic Design Ltd.

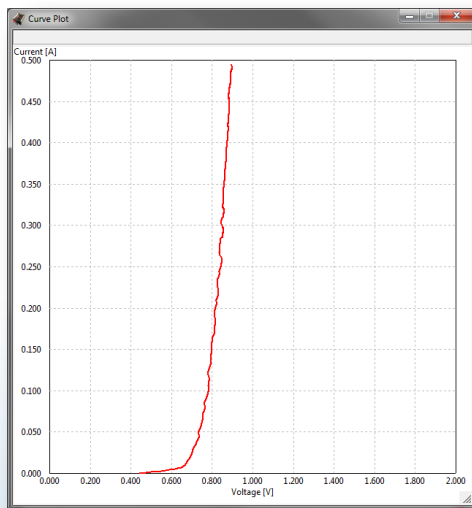
[www.syscompdesign.com](http://www.syscompdesign.com)

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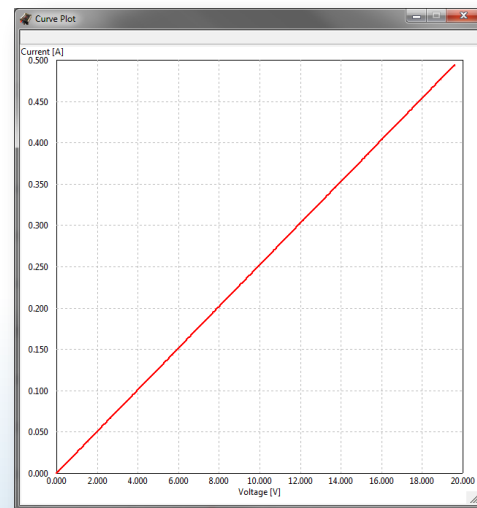
## Curve Tracer



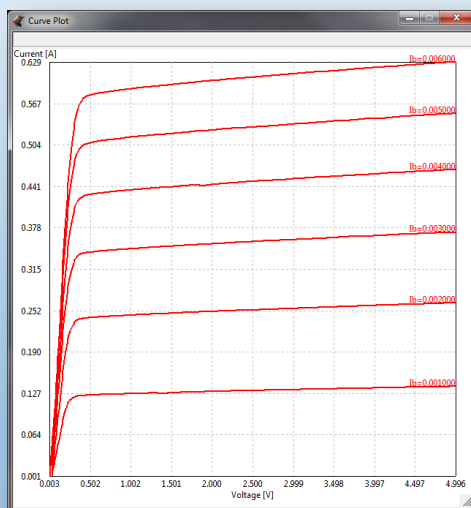
### Sample Curve Plots



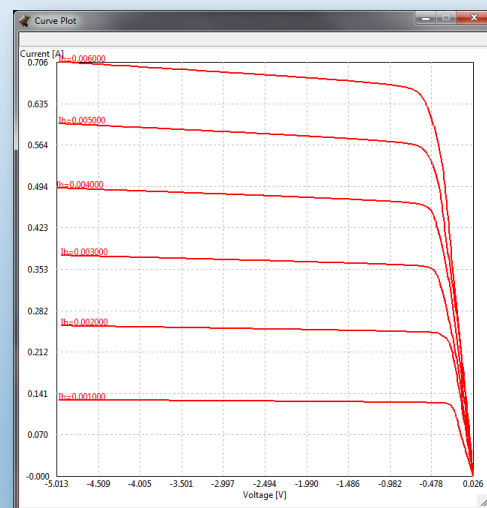
**Small Signal Diode**



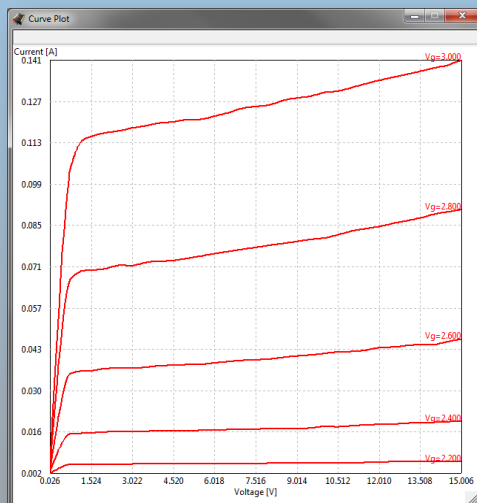
**Power Resistor**



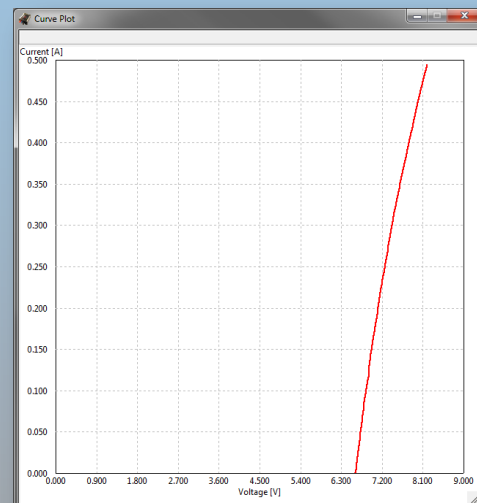
**NPN Transistor**



**PNP Transistor**



**N-Channel FET**



**Zener Diode**