

201.net DISCRETE SEMICONDUCTOR TEST SYSTEM

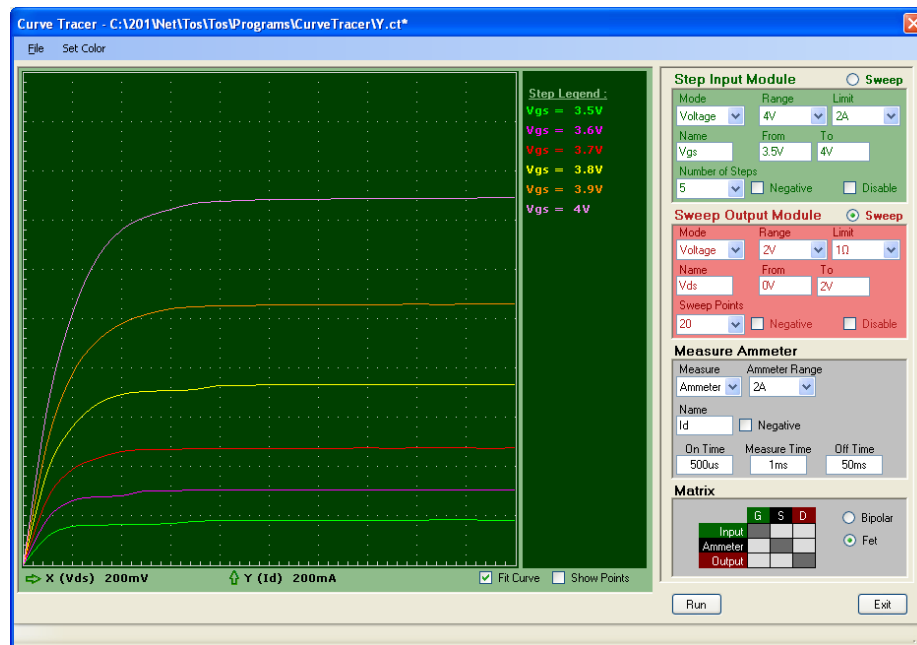
CURVE TRACER

The Curve Tracer add-on extends the test capability of the 201.net Test System and provides an excellent application to analyze the characteristics of discrete semiconductors such as diodes, bipolars, SCRs, IGBTs, and FETs.

Programmable voltage and current sources are used to stimulate the device under test and results may be saved for analysis.



Interactive User Interface



Features

The SemiTek 201.net Add-on Curve Tracer includes many extra features including:

- PC/Windows 7 based programming and operation.
- Friendly graphical user-interface.
- Preformatted test library and programming aids to build your own.
- The stimulus and measurement resources of the 201.net Discrete Semiconductor Test System.
- Programmable test stimulus to:
 - Voltage 2000VDC
 - Current 200A
- Compatibility with existing Tektronix curve tracer interface/

Operation

From the main Curve Tracer window, accessible from any test terminal, you set up the system hardware and define the parameters of the test you want to perform. Tests can be edited, saved, and recalled as desired.

You interact with the Curve Tracer using the color coded graphic user-interface with the system's resources to set the relay matrix, input, output, and measurement modules. Specify the voltage or current, range of the test, the step size, the number of sweeps, and the load resistor to apply to perform the desired test.

A library of preformatted tests is provided. Programming aids and calculations allow you to specify your own tests.

Displayed curves are color coded and clearly identify the test name and stimulus values. Checking Show Points highlights each step point. Hovering over a point will display the value of a point.

A screen capture will allow you to save your curve for archive

Tests Performed

Following is part of the growing list of curves you can generate using the Curve Tracer add-on to your 201.net test system.

ID vs. Vds	Bvebo vs. Ie	Idss vs. Vds
IDon vs. Vds	Icbo vs. Vcbo	Hfe vs. Ic
IDon vs. Vgs	Vbe vs. Ib	Hfe vs. Vce
Isd vs. Vsd	Bvce vs. Ic	Ic vs Vce
RDSon vs. ID	If vs. Vf	
RDSon vs. Vgs	Irv s. Vr	



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