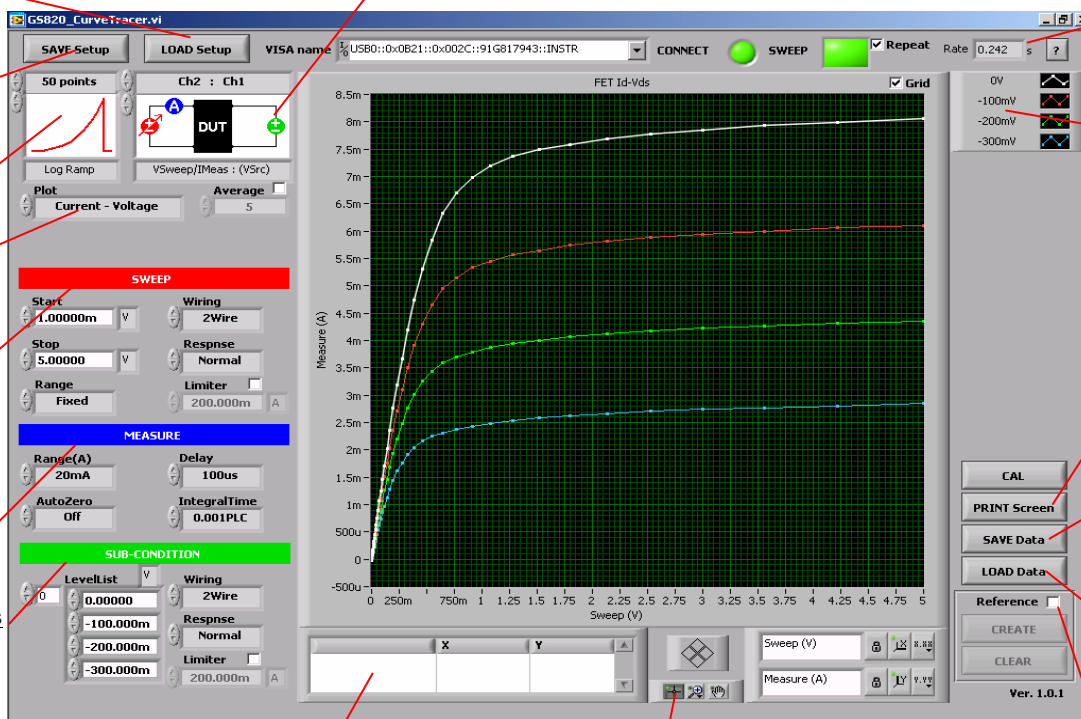


Curve Tracer

GS series Source Measure Unit + 765670 Curve Tracer Software



The screenshot shows the GS820 Curve Tracer software interface. It features a central graph displaying current-voltage characteristics. The interface is divided into several sections: 'LOAD Setup' (50 points, Ch2: Ch1, DUT), 'SWEEP' (Start: 1.00000mV, Stop: 5.00000V, Range: Fixed, Wiring: 2Wire, Response: Normal, Limiter: 200.000mA), 'MEASURE' (Range(A): 20mA, Delay: 100us, IntegralTime: 0.001PLC), and 'SUB-CONDITION' (LevelList: 0, -100.000mV, -200.000mV, -300.000mV; Wiring: 2Wire, Response: Normal, Limiter: 200.000mA). The graph shows multiple curves for different current levels. The interface includes various control buttons like 'SAVE Setup', 'LOAD Setup', 'CONNECT', 'SWEEP', 'Repeat', 'CAL', 'PRINT Screen', 'SAVE Data', 'LOAD Data', 'CREATE', and 'CLEAR'. The version number 'Ver. 1.0.1' is displayed at the bottom right.

Annotations on the screenshot include:

- Load setup parameters
- Save setup parameters
- Select the sweep shape
- Define the graph axes
- Set the sweep range and various conditions
- Set the measurement range and various conditions
- Set parameters
- Select the connection
- Graph update rate
- Parameter display
- Capture the screen
- Save to a CSV file
- Load from CSV file and display graph
- Define a reference curve
- Cursor features
- Zoom and scroll

Product Overview

This product is a high-speed, high-accuracy real-time V-I curve tracer that consists of the GS series Source Measure Unit and the 765670 Curve Tracer Software. It is particularly well-suited to DC parametric tests of minute signals.

Simple system configuration, easy connection, compact, and light

This system is configured by connecting the GS series Source Measure Unit to a PC that contains the 765670 Curve Tracer Software via USB. You can perform high-speed, high-accuracy curve tracing despite its compact size, light weight, and simple system configuration.

Real-time, High-Speed Drawing

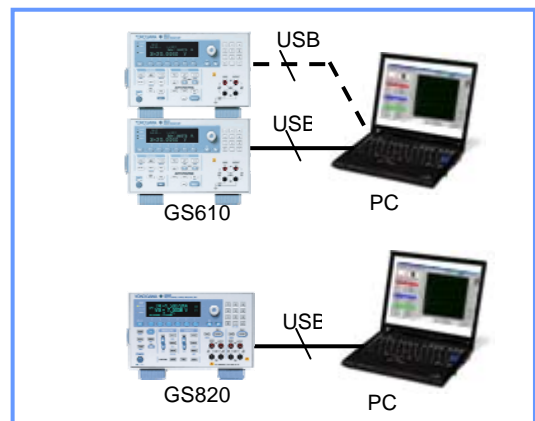
The GS series is high-speed communication and sweep features allow high-speed graph update rate up to 25 pages/s.(GS820)

You can use the real-time curve tracer with comfort.

Drawing Speed (times/s, Reference values)

Plot Points	Product Name	
	GS610	GS820
20	20	25
50	10	16
100	5	11
200	3	6

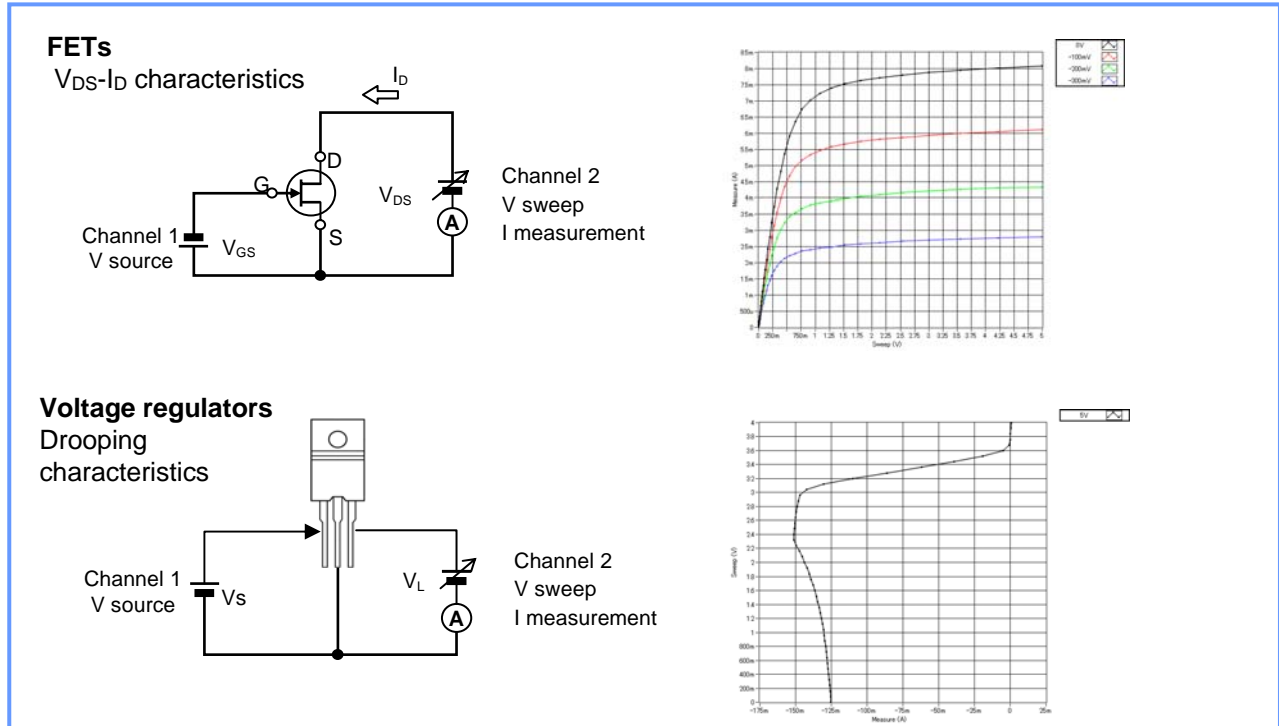
Conditions: CPU: Core2Duo1.5 GHz, USB 2.0, using LabView.
measurement integration time:GS820 0.001 PLC / GS610 250 μs



Field of Applications

- Discrete semiconductors such as transistors and diodes
- Analog ICs such as voltage regulators and op-amps
- MOS logic and other digital ICs
- LED and other optical devices
- Solar battery cells

Examples of Measurements of Characteristics



Specifications

Specifications

- **Graph drawing:** Voltage vs. current, voltage vs. voltage, gain vs. voltage, voltage vs. timestamp, current vs. voltage, current vs. current, gain vs. current, current vs. timestamp
 - Sweep axis: Voltage source or current source
 - Measurement axis: Voltage measurement or current measurement
 - Parameter: Voltage source or current source
 - Sweep shape: Ramp (linear or log), triangle (linear or log), rectangle
 - Sweep points: 5, 10, 20, 50, 100, 200, 1000
 - Scaling: Auto scale or fixed scale
 - Averaging count: 2,100
- **Analysis feature:** Cursor, zoom & scroll, reference curve designation
- **File operations:** CSV data storage and loading, graphic image storage, panel image storage, setup storage and recall

System requirements

- **PC**
 - Memory: 512 MB or more
 - HDD: Free space of 1 GB or more
- **Operating system**
Windows 2000 Professional (SP3 or later), Windows XP Home Edition, Windows XP Professional, or Windows Vista
- **USB interface**
USB 1.1 or USB 2.0 port.
- **USB cable**
USB 1.1 or USB 2.0 A-B cable for connecting the GS series to a PC.
- **Monitor and mouse**
Compatible with the operating systems listed above.
- **GS series**
 - 765501 standard model.
The firmware version must be 1.10 or later to use the measurement auto range feature with this software.
 - 765601 standard model or 765602 digital I/O installed model.
The firmware version must be 1.04 or later to use the measurement auto range feature with this software.
 - The detailed GS series specifications are contained in the GS series catalog (Bulletin 7655-00/7656-00).

Models and Suffix Codes

Model	Suffix Code	Description
765670	-E	Curve Tracer Software English Version 1 license
765501		GS610 Source Measure Unit Standard Model
765601		GS820 Multichannel Source Measure Unit Standard Model
765602		GS820 Multichannel Source Measure Unit Digital I/O Installed Model
A1421WL		USB2.0 cable

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