

# ST-250V

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## *Surge Tracer*



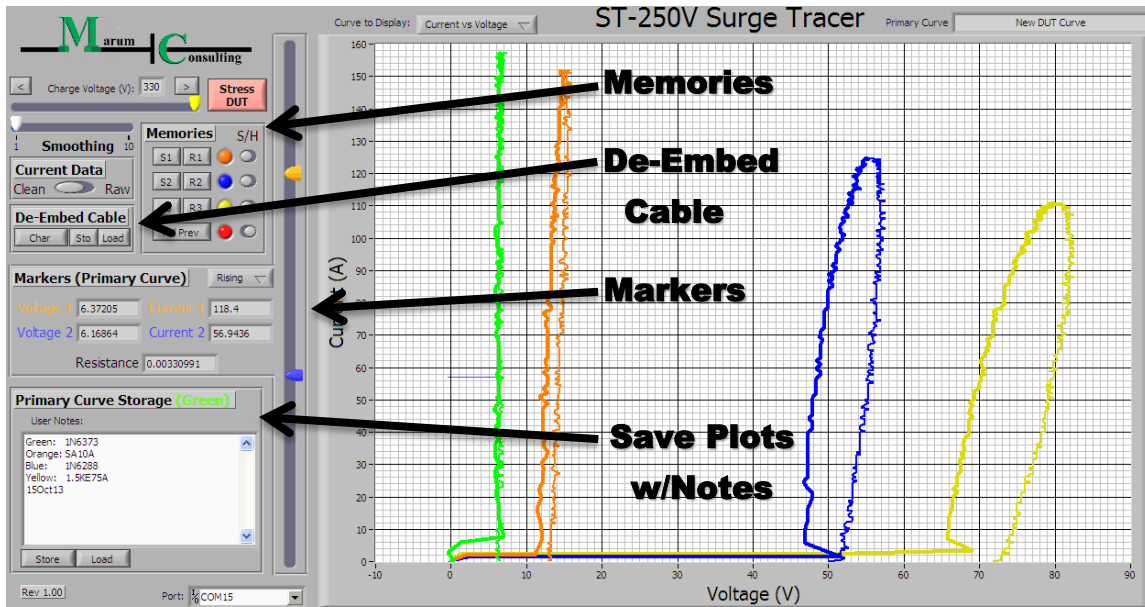
## **A Low Cost Tool for Characterizing ESD Clamps, Transient Voltage Protectors, and Application Circuits when subjected to the IEC 61000-4-5 surge stress at currents up to 125 amperes**

How does your transient clamp behave when subjected to an IEC 61000-4-5 surge? How does your application circuit behave at these high currents? Knowing is essential to getting them to work together to survive the stress and avoid product failure.

Designers using ESD or transient protection devices *need* this information that is typically not available on datasheets...

*You* need this information.

**Marum Consulting**  
2619 Rivercrest Drive  
Sherman, TX 75092  
903-868-2901  
Steve@MarumConsulting.com



Sample front panel showing IV curves of a 1N6373 plotted to 158 A, an SA10A plotted to 152 A, a 1N6288 plotted to 125 A, and a 1.5KE75A plotted to 110 A.

## Features

- Uses Your Computer's Display
  - USB Link to Hardware
  - LabVIEW Control Program
- **Low-Cost** Alternative to TLP (Transmission Line Pulsar)
- **Significantly Higher Current** than Conventional Curve Tracer
- Uses Single IEC 61000-4-5 Surge Pulse
- Short Circuit Current Range: 7 - 125 A
- Open Circuit Voltage Range: 14 - 250 V
- 4 Curve Memories
  - Store/Recall
  - Visibility On/Off
- Markers for Primary Curve
  - Read Voltage & Current
  - Calculate Resistance between Markers
- De-Embed Cable Impedance
  - Cable Characteristics Saved to/from Disk
- View current versus voltage, current waveform, or voltage waveform
- Adjustable Curve Smoothing
- Save Device Curves to/from Disk
  - Spreadsheet Compatible
- Price: \$13,900 plus tax

## Description

The ST-250V Surge Tracer is a new type of curve tracer. Using a single IEC 61000-4-5 compliant surge pulse, the voltage across the DUT (Device Under Test) and the current through the DUT are simultaneously measured and displayed for both the rising and falling edges of the stress.

Surviving the IEC 61000-4-5 surge stress is a requirement for many products, but until now there was not an easy way to learn the behavior of components when subjected to this stress.

In many cases the ST-250V can also take the place of a much more expensive Transmission Line Pulsar (TLP).



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