PCT-2025

Pulsed Curve Tracer

A Low Cost Tool for Characterizing ESD Clamps, Transient Voltage Protectors, and Application Circuits at currents up to 20 amperes

How does your transient clamp behave when subjected to a 15 amp pulse? How is your application circuit affected by high currents? Knowing is essential to getting them to work together to survive the stress and avoid failure.

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

You need this data.

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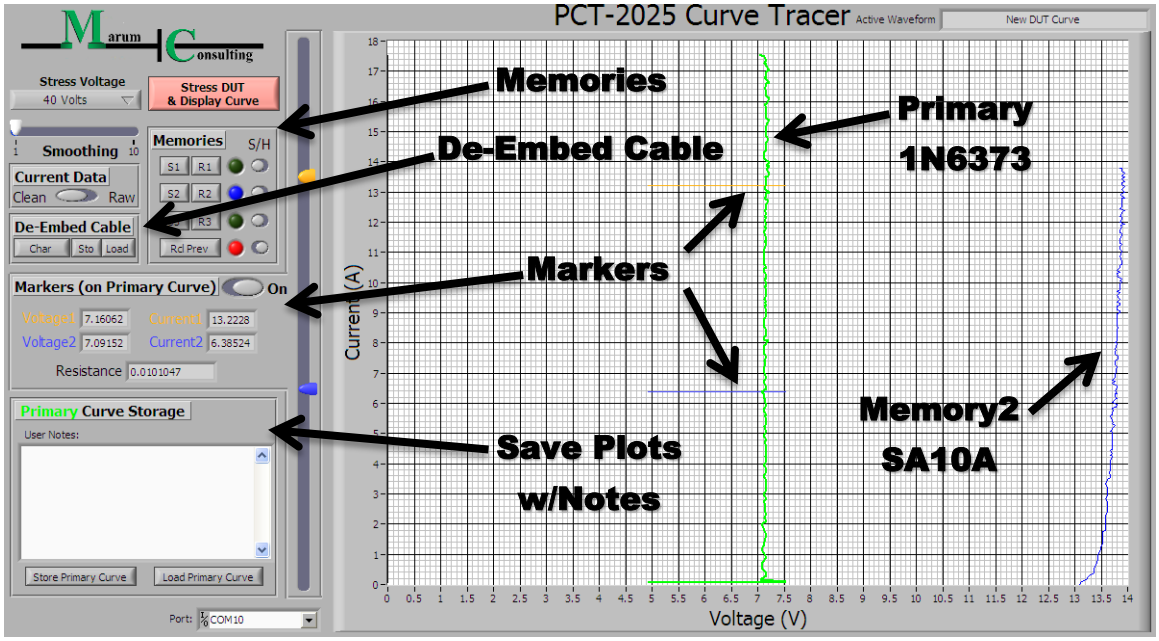

Sample front panel showing IV curves of a 1N6373 plotted out to 17 A and a SA10A plotted out to 13 A.

Features

- Uses Your Computer's Display
  - USB Link to Hardware
  - LabVIEW Control Program
- **Low-Cost** Alternative to TLP (Transmission Line Pulser)
- **Higher Current** than Conventional Curve Tracer
- Current Range: 0 - 20 A
- Voltage Range: 0 - 25 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
- Adjustable Curve Smoothing
- Save Device Curves to/from Disk
  - Spreadsheet Compatible
- Uses Single 10 µs Current Ramp
- Price: $9,900 plus tax

Description

The PCT-2025 Pulsed Curve Tracer is a high current two-terminal curve tracer. Using a single current ramp of 10 µs duration, the voltage across the DUT (Device Under Test) and the current through the DUT are simultaneously measured and displayed.

Most conventional curve tracers use pulses of 1 ms, or even 10 ms, limiting their usable current to about 1 A before the DUT is damaged by excessive power. The PCT-2025 eliminates this limitation.

TLPs can reach high currents, but are much more expensive than the PCT-2025. In many cases a PCT-2025 can replace a TLP.

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