TEKTRONIX

370A

The Tektronix 370A is a world-standard programmable curve tracer designed for DC parametric characterization of semiconductor devices including transistors, thyristors, diodes, SCRs, MOSFETs, and optoelectronic components. It features an interactive 7-inch CRT display, high-voltage/high-current stimulus, 4-terminal Kelvin sensing, non-volatile internal storage, and an integrated 3.5-inch floppy drive for storing waveforms and setups.

SPECIFICATIONS

Collector Supply

Peak Voltage Ranges	16 V, 80 V, 400 V, 2000 V
Peak Current (16 V Range)	20 A pulse, 10 A continuous
Peak Current (80 V Range)	4 A pulse, 2 A continuous
Peak Current (400 V Range)	0.8 A pulse, 0.4 A continuous
Peak Current (2000 V Range)	0.1 A pulse, 0.05 A continuous
Peak Power Limits	0.08 W, 0.4 W, 2 W, 10 W, 50 W, 220 W

Step Generator

Current Step Amplitude Range	50 nA to 200 mA per step
Voltage Step Amplitude Range	50 mV to 2 V per step
Maximum Number of Steps	0 to 10

Test Fixture & Aux

Kelvin Sensing Capability	Standard 4-terminal Kelvin sensing via test fixture

Environmental

Maximum Non-Operating Altitude	15,240 m (50,000 ft)

Physical & Power

Form Factor	Benchtop Cabinet

Display

CRT Size	17.8 cm (7 in) diagonal
CRT Phosphor Type	P31

TECHNOLOGY

Solid-state parametric analysis and high-voltage/high-current stimulus

APPLICATIONS

Semiconductor device parametric characterization, quality assurance, failure analysis, and component matching