KI-3020A

Semiconductor Curve Tracer

Features

- A quick checking tool for semiconductor devices
- Display characteristic curves for all semiconductor devices on your scope

MODEL KI-3020A is designed for testing :
Transistors-NPN, PNP, FET & MOSFET, SCR'S (thyristers), UJT, DIAC & TRIAC'S, Diodes-rectifier, zener, detector & tunnel.

Description

Curve tracing on a scope could be made easily by KI-3020A However, only a Sync. Oscilloscope is required. Characteristic curves of all types of semiconductor-transistor such as FET, diodes, zener diode, SCR, TRIAC, DIAC, UJT etc. Are accurately displayed. By examining these curves you can determine all of the operating characteristics of the device you are testing including gain (β), cutoff current, leakage current, output admittance and any other measurable specifications. It is far superior to the general transistor tester for checking quality. Uniquely, it is intended for testing semiconductors in production line and lab as well as making trouble shooting by technicians.

Specifications

Collector Drain Sweep Voltage

- Frequency: 120Hz or 100Hz (2 line frequency)
- Voltage: 11 steps, 5, 10, 20, 30, 40, 50, 60, 80, 100, 150 and 200V accuracy ±10% (or continuously variable)
- Sweep waveform: Full wave rectified
- Current: 500 mA maximum

Step Generator

- Number of steps: 7
- Current per step: 10, 20, 50μA; 0.1, 0.2, 0.5, 1.0, 2.0 mA; accuracy ±5%
- Voltage per step: 0.1, 0.2, 0.5V; accuracy ±5%
- External bias: one curve display

Polarity Switch

- Three modes of operation - NPN, PNP, DIODE.

General

- Power supply: 100V/110V/220V. 50/60Hz, 25VA max. operating
- Dimension: 135(H) x 270(W) x 195(D)mm
- Weight (net): Approx. 3.3kg
- Operating temperature: 0 °C ~ 50 °C