



16950 Semiconductor component checker & curve tracer are useful for checking & tracing the characteristics curve of a variety of components in a very short time duration. The Instrument consist of five different sections, detail Specifications & features are following :

SECTION - 1. DIODE CHECKER :-

SPECIFICATIONS :

01. Indicates whether diode is open circuit, short circuit & if working, its polarity.
02. Silicon & germanium, both types of diodes can be tested.

FEATURES :

Two LED's & One test switch are provided showing :

01. Open diode - If both LED's are OFF.
02. Short diode - If both LED's are ON.
03. Good diode - If one glows fully & other dim.

SECTION - 2. TRANSISTOR CHECKER :-

SPECIFICATIONS :

01. For good transistor LED marked GOOD will glow.
02. For bad transistor LED marked BAD will glow..

FEATURES :

01. One transistor socket and three sockets are provided.
02. A switch decides NPN or PNP transistor.
03. Good transistor - If one glows fully & other dim.

SECTION - 3. FET CHECKER :-

SPECIFICATIONS :

01. For GOOD FET, the meter needle vibrates continuously between a maximum position to a minimum position. .
02. For BAD FET, either there is no response in the meter or it holds at one point.

FEATURES :

01. One transistor socket and three sockets are provided.
02. An ammeter of 1 mA range is provided .
03. Designed to test almost all FET's.

SECTION - 4. TRANSISTOR PARAMETER CHECKER :-

SPECIFICATIONS :

TRANSISTOR TESTER TESTS I_{LEAKAGE} AND GAIN_{CB0} AT TWO RANGES LOW AND HIGH.

I_{CB0} TEST : 0 to 15 mA on LOW range. 0 to 50mA on HIGH range.

LEAKAGE TEST : 0 to 500 mA on LOW range. 0 to 1500mA on HIGH range.

GAIN TEST : 0 to 50 mA on LOW range. 0 to 150mA on HIGH range for values of base current i.e. 300, 150, 50, and 25mA.

FEATURES :

01. Big 115 mm X 55 mm (4.5" X 2.25") dial of meter increases the accuracy of readings.
02. Four values of base current are provided for gain measurement so that gain can be compared under four conditions.
03. A six position selector switch selects gain at 300, 150, 50, and 25mA base current, leakage and I currents. _{CB0}
04. Another switch selects HIGH and LOW rangs.
05. A transistor socket is provided for transistors with short leads, and three sockets for any other.
06. A PNP - NPN switch selects PNP or NPN transistor to be checked.

SECTION - 5. CURVE TRACER :-

SPECIFICATIONS :

Semiconductor Device range:

01. Bipolar Transistor (NPN & PNP)
02. FET (Junction N & PType)
03. SCR
04. UJT (N-Channel)
05. ZENER DIODE (Upto 50V Vz)
06. GERMANIUM & SILICON DIODES
07. LED

FEATURES :

01. Full protection of semi- conductor devices.
02. Full protection of internal circuitry.
03. Selection of Forward or Reverse characteristics for Zener diodes, diodes & LED by a switch.
04. Ease of operation due to minimum number of panel settings.

COMMON FEATURES :-

- For connecting devices two Nos. of 3 test cables are provided.
- Power Requirement : 230 V ± 10% at 50 Hz A.C. mains.
- Strongly supported by detailed operating instructions.
- Weight : 4 Kg. (Approx)
- Dimension : W 340 x H 110 x D 210 .

OTHER APPARATUS REQUIRED :

- Cathod Ray Oscilloscope

Note: Specifications are subject to change.

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