

OMEGA TYPE CTS - 101 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.
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_{CBO} LEAKAGE AND GAIN

AT TWO RANGES LOW AND HIGH. I_{CBO} 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_{CBO} currents.
- 04 Another switch selects HIGH and LOW ranges.
- 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 & P Type)
- 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 :-

- 01 For connecting devices two Nos. of 3 test cables are provided.
- 02 Power Requirement : 230VAC \pm 10% at 50 Hz.
- 03 Strongly supported by detailed operating instructions.
- 04 Weight : 4 Kg. (Approx)
- 05 Dimension : W 415 x H 165 x D 315 .

OTHER APPARATUS REQUIRED :

- 01 Cathod Ray Oscilloscope 20MHz
OMEGA TYPE CRO-20

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS