

CHARACTERISTICS OF UJT JUNCTION TRANSISTOR (UJT) AND MEASUREMENT OF ITS PARAMETERS,

MODEL - UJ - 05.

FEATURES:

- ** Two Power Supplies (Regulated, continuously variable, short circuit proof) suitable to the experimental board are builtin.
- ** Circuit is drawn on a decorated bakelite sheet to facilitate better and clear understanding.
- ** A complete working manual containing operating instructions, theory and circuit details will be supplied alongwith experimental board.
- ** Patch cords suitable the terminals are supplied with the board for easy interconnections and longer working life of the terminals.



EXPERIMENTS :

1. To plot the emitter (or input) Characteristics of a UJT and obtain the value of the following parameters from it :
 - (a) Intrinsic shad - off ratio n .
 - (b) Peak point emitter current I_P .
 - (c) Valley point emitter current I_V .
 - (d) Valley point emitter voltage V_V .
 - (e) Emitter saturation voltage V_E (sat).
2. To plot the inter-base (or output) Characteristics of a UJT, and obtain the values of inter-base resistance R_{BB} from it.
3. To study the working of a UJT a saw Tooth Generator.

OTHER APPARATUS REQUIRED :

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|----|--------------------------------------------------------------|---------------|--------|
| 1. | Digital Voltmeter. | 0 - 200, Volt | 01 No. |
| 2. | Digital Milliammeter. | 0 - 20, mAmp. | 01 No. |
| 3. | Digital Multimeter, Model - 4011. ("Sciencetech" make.) | | |
| 4. | A General Purpose C.R.O., Model - 201. ("Sciencetech" make.) | | |

There may be any change in specification due to continuous R & D without notice.