

CHARACTERISTICS OF SEMICONDUCTOR DEVICES

CEE 2030 Transistor Characteristics Apparatus

OBJECTIVE: Input & Output Characteristic of Common Base, Common emitter and common collector PNP & NPN Transistor.

POWER SUPPLY: 0-10V DC/25mA, 0-1V DC/25mA

METER: Four Digital Meters for Voltage & Current.

STANDARD (COMP): One PNP & one NPN Transistor.



CEE 2031 SCR Characteristics Apparatus

OBJECTIVE: To plot Anode current Vs Anode Cathode Voltage Characteristics, Gate Characteristics of SCR and Measurement of Latching & Holding Current.

POWER SUPPLY: Two DC Regulated Power Supply of : 0-30V DC/30mA
0-1.2V DC/30mA

METER: Three Digital Meters for Voltage & Current.

STANDARD (COMP): SCR 2P4M and Different Resistance.

CEE 2032 FET Characteristics Apparatus

OBJECTIVE: To plot static & Transfer Characteristics and measurement of PINCH OFF Voltage of FET

POWER SUPPLY: Two DC Regulated Power Supply of : 0-15V DC/30mA
0-5 DC/30mA

METER: Three Digital Meters for Voltage & Current.

STANDARD (COMP): FET BFW10



CEE 2033 PN Junction Diode Characteristics Apparatus

OBJECTIVE: To study Forward & Reverse Characteristics of PN Junction Diode.

POWER SUPPLY: Two DC Regulated Power Supply of : 0-3V DC/30mA
0-100V DC/30mA

METER: Two Digital Meters for Voltage & Current.

STANDARD (COMP): PN Junction Diode.& Different Resistance.

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CEE 2034 Zener Diode Characteristics Apparatus

OBJECTIVE: To study Forward & Reverse V-I Characteristics of Zener Diode and Voltage Regulation Using Zener Diode.

POWER SUPPLY DC Regulated Power Supply of : 0-18V DC/50mA :

METER: Two Digital Meters for Voltage & Current.

STANDARD (COMP): 3 Zener Diode of Different Voltage Rating & Different Resistance.

CEE 2035 PN Junction / Zener Diode Characteristics Apparatus

OBJECTIVE: To study Forward & Reverse Characteristics of PN Junction Diode & Zener Diode.

POWER SUPPLY: Two DC Regulated Power Supply of :0-100V DC/30mA, 0-3V DC/30mA

METER: Two Digital Meters for Voltage & Current.

STANDARD (COMP): Two PN Junction Diode (One Si and One Ge Diode) & One Zener Diode & Different Resistance.



CEE 2036 Energy Band Gap Apparatus

OBJECTIVE: To plot Reverse saturation current Vs Temperature in Reverse biased PN Junction Diode.

POWER SUPPLY: DC Regulated Power Supply of 0-10V DC/30mA & Ac Supply for oven with Low & High selection for heating

METER: Two Digital Meters for Voltage & Current.

STANDARD (COMP): One PN Junction Diode is kept in oven & One No. Thermometer.

CEE 2037 Thermistor Characteristics Apparatus

OBJECTIVE: To plot -Ve Resistance co-efficient Characteristics of a Thermistor.

POWER SUPPLY: DC Regulated Power Supply of 0-10V DC/30mA.
Variable AC Power Supply for oven heating.

METER: Two Digital Meters for Voltage & Current.

STANDARD (COMP): One Thermistor kept in oven & One No. Thermometer.

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CEE 2038 UJT Characteristics Apparatus

- OBJECTIVE:** To plot V-I Characteristics of UJT.
- POWER SUPPLY:** Two DC Regulated Power Supply of 0-15V DC/30mA
0-25V DC/30mA
- METER:** Three Digital Meters for Voltage & Current
- STANDARD (COMP):** One No UJT & Different Resistance.

CEE 2039 Mosfet Characteristics Apparatus

- OBJECTIVE:** To plot V-I Characteristics of Mosfet for different values of VGS
- POWER SUPPLY:** Two DC Regulated Power Supply 0-5V DC/30mA
0-25V DC/30mA
- METER:** Three Digital Meters for Voltage & Current.
- STANDARD (COMP):** One No. Mosfet & Different Resistance.



CEE 2040 Characteristics & Applications of Basic Thyristors

- OBJECTIVE:** To study Characteristics & Applications of Diac, Triac, UJT & SCR.
- POWER SUPPLY:** Three DC Regulated Power Supply of 0-15V/30mA, 0-50V/30mA,
6.2.5V AC/1Amp
- METER:** Four Digital Meters for Voltage & Current.
- STANDARD (COMP):** UJT, SCR, Diac, Triac & their supportive components.

CEE 2041 Diac Characteristics Apparatus

- OBJECTIVE:** To study V-I Characteristics of Diac
- POWER SUPPLY:** DC Regulated Power Supply of 0-50V/30mA
- METER:** Two Digital Meters for Voltage & Current
- STANDARD (COMP):** One Diac & Resistance

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CEE 2042 Triac Characteristics Apparatus

- OBJECTIVE:** To study the Characteristic with Gate Signal in all the 4 Quadrants.
- POWER SUPPLY:** Two DC Regulated Power Supply 0-15V DC/30mA, 0-5V DC/30mA
- METER:** Four Digital Meters for Voltage & Current
- STANDARD (COMP):** One No. Triac & Different Resistance.

CEE 2043 LDR Characteristics Apparatus

- OBJECTIVE:** To plot a graph, current versus intensity of light at Different value of voltages.
- POWER SUPPLY:** DC Regulated Power Supply 0-3V DC/30mA
- METER:** Two Digital Meters for Voltage & Current.
- STANDARD (COMP):** One No. LDR, Optical Bench With Meter Scale, Lamp & Stand

CEE 2045 LED Characteristics Apparatus

- OBJECTIVE:** To study V-I Characteristics if a LED.
- POWER SUPPLY:** 0-3V DC/30mA
- METER:** Two digital Meters for Voltage & Current.
- STANDARD (COMP):** One No. LED.



CEE 2046 Characteristics of Opto Electronics Devices

OBJECTIVE: To plot V-I Characteristics of Photo Transistor, Photo Diode, LDR & LED.

POWER SUPPLY: DC Regulated Power Supply 0-3V DC/30mA

METER: Two Digital Meters for Voltage & Current.

STANDARD (COMP): Optical Bench with Meter scale , Lamp & Stand , Photo Diode, Photo Transistor , LDR & LED mounted on separate cabinets

CEE 2047 Photo Diode Characteristics Apparatus

OBJECTIVE: To plot a graph, Current versus intensity of light at Different value of voltages.

POWER SUPPLY: DC Regulated Power Supply 0-3V DC/30mA

METER: Two Digital Meters for Voltage & Current.

STANDARD (COMP): Photo Diode, Optical Bench with Meter scale , Lamp & Stand .

CEE 2048 Photo Transistor Characteristics Apparatus

OBJECTIVE: To plot a graph, Current versus intensity of light at Difference value of voltages.

POWER SUPPLY: DC Regulated Power Supply 0-3V DC/30mA

METER: Two Digital Meters for Voltage & Current.

STANDARD (COMP): Photo Transistors, Optical Bench with Meter scale , Lamp & Stand , Photo Diode, .