

Module 1

Chapter 1 : Semiconductor Devices 1-1 to 1-42

Syllabus : Review of diodes, V-I characteristics and applications of : Rectifier diode, Zener diode, LED, Photodiode; SCR V-I characteristics, UJT triggering circuit, Turning-off of a SCR (preliminary discussion), Basics of Gate Turn Off (GTO), Structure and V-I characteristics of Triac (modes of operation not needed) and Diac, Applications of Triac-Diac circuit

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Applications of microcontroller : Temperature measurement, Speed measurement using Proximity Sensor, Piezoelectric Actuator Drive.

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