	K.S.RANGASAMY COLLEGE OF TECHNOLOGY, TIRUCHENGODE – 637 215 An Autonomous Institution, Affiliated to Anna University Chennai	**EEE**

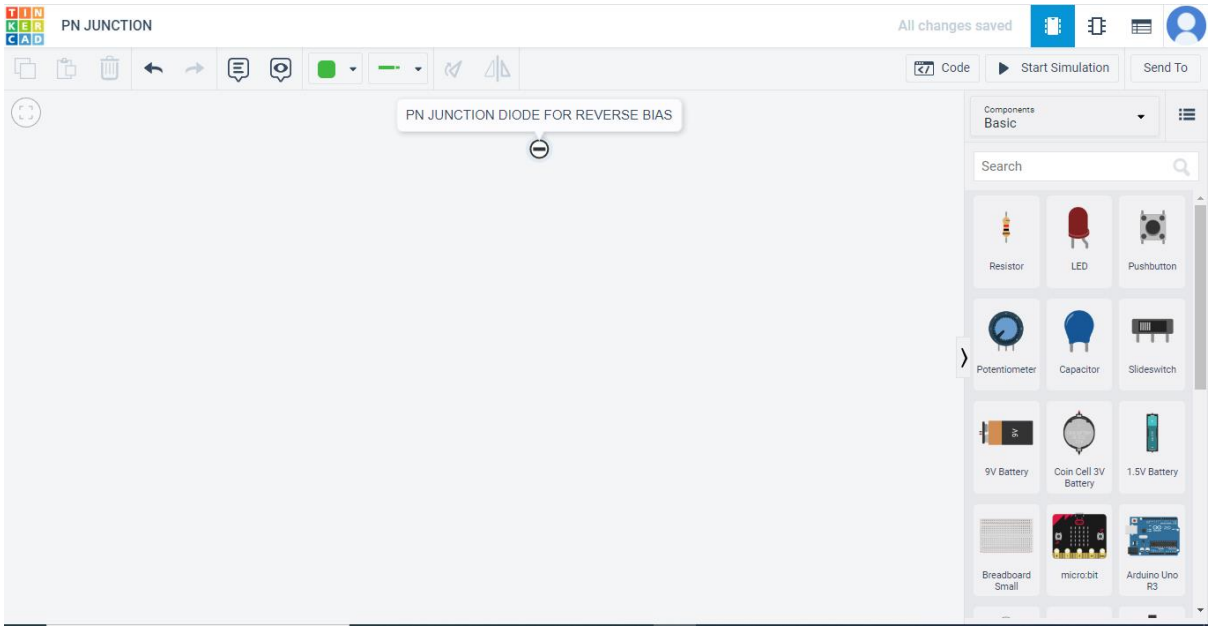
Learning by Doing – Simulation using Tinker cad

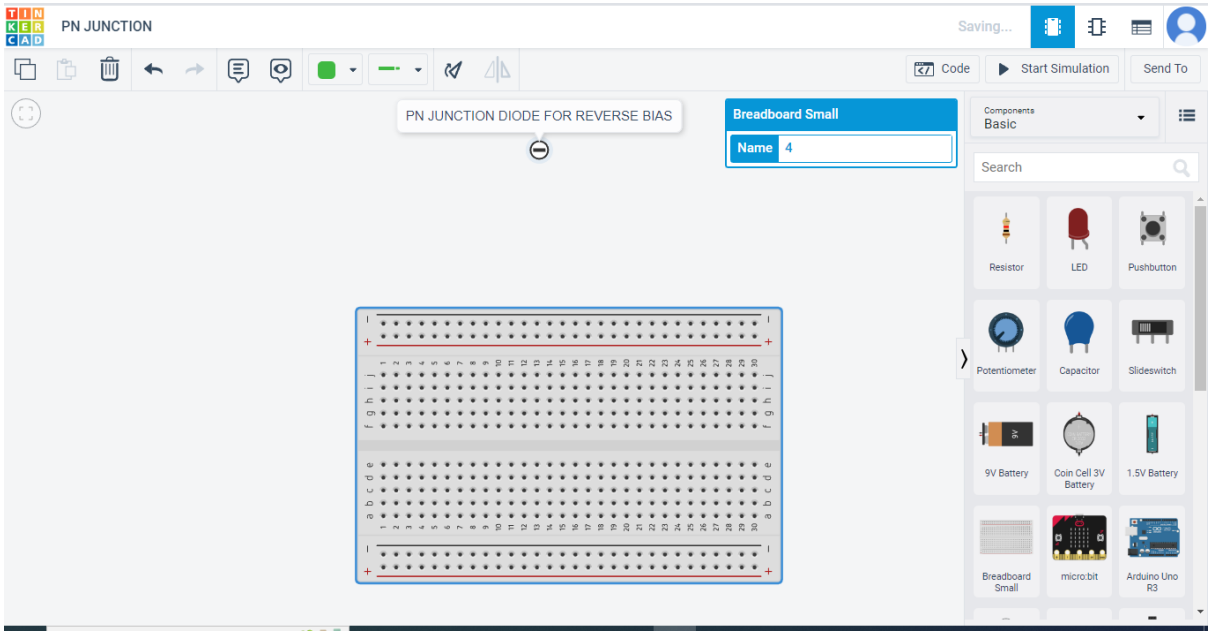
DEG / BRANCH	**B.E(ELECTRICAL AND ELECTRONICS ENGINEERING)**
SEMESTER	**III**
SUBJECT CODE	**50 EE 302**
SUBJECT NAME	**ANALOG ELECTRONICS**
Topic	**Working of PN junction Diode**

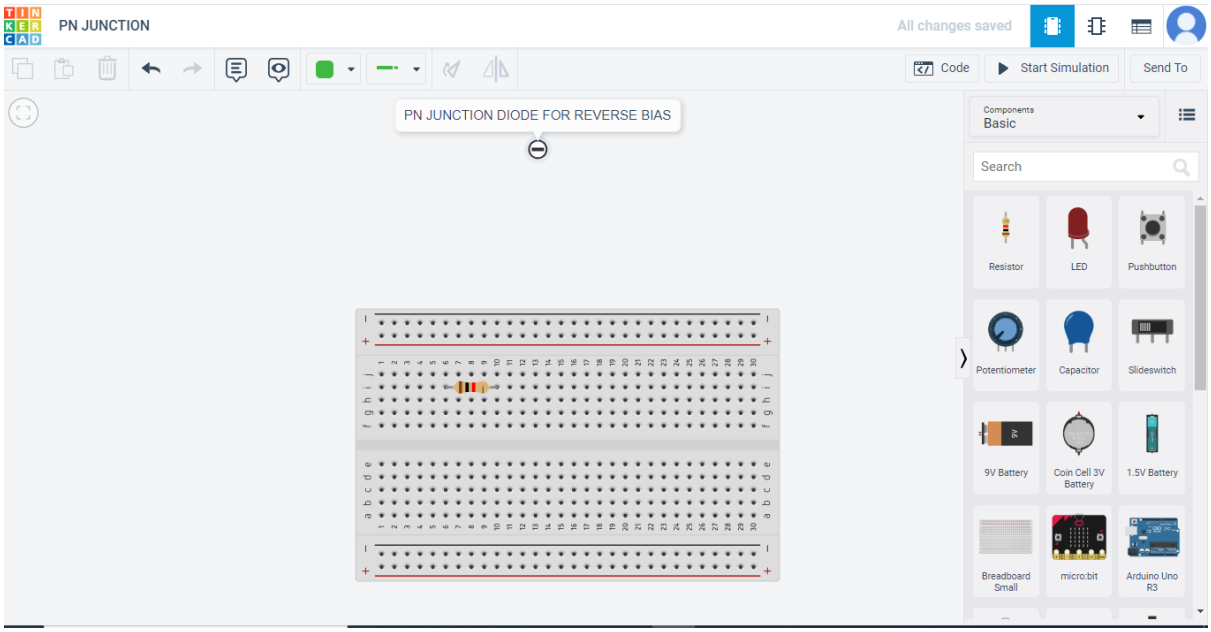
Course Instructor
Dr D.Sri Vidhya
ASP / EEE

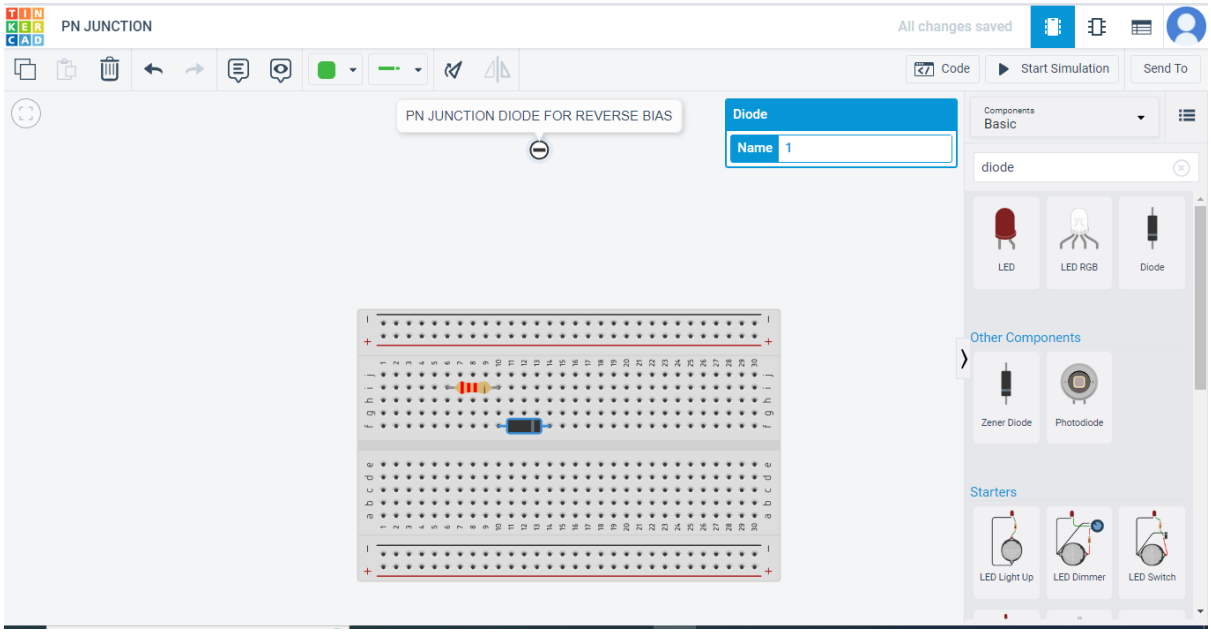
PN JUNCTION DIODE

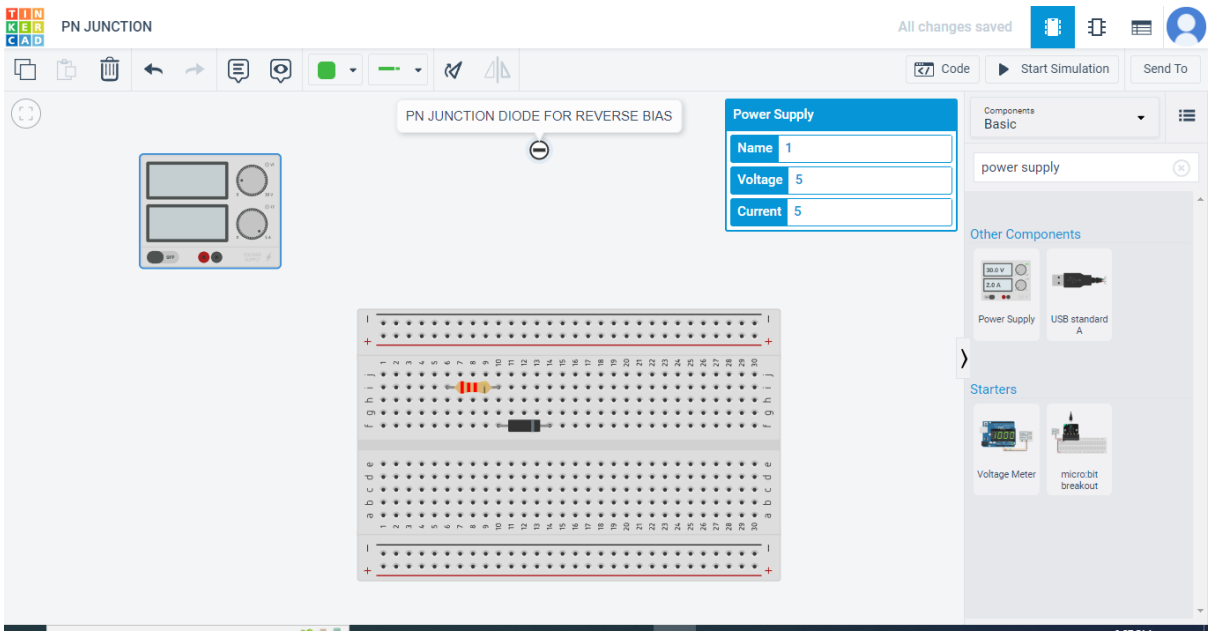
Working of PN Junction Diode using Tinker Cad

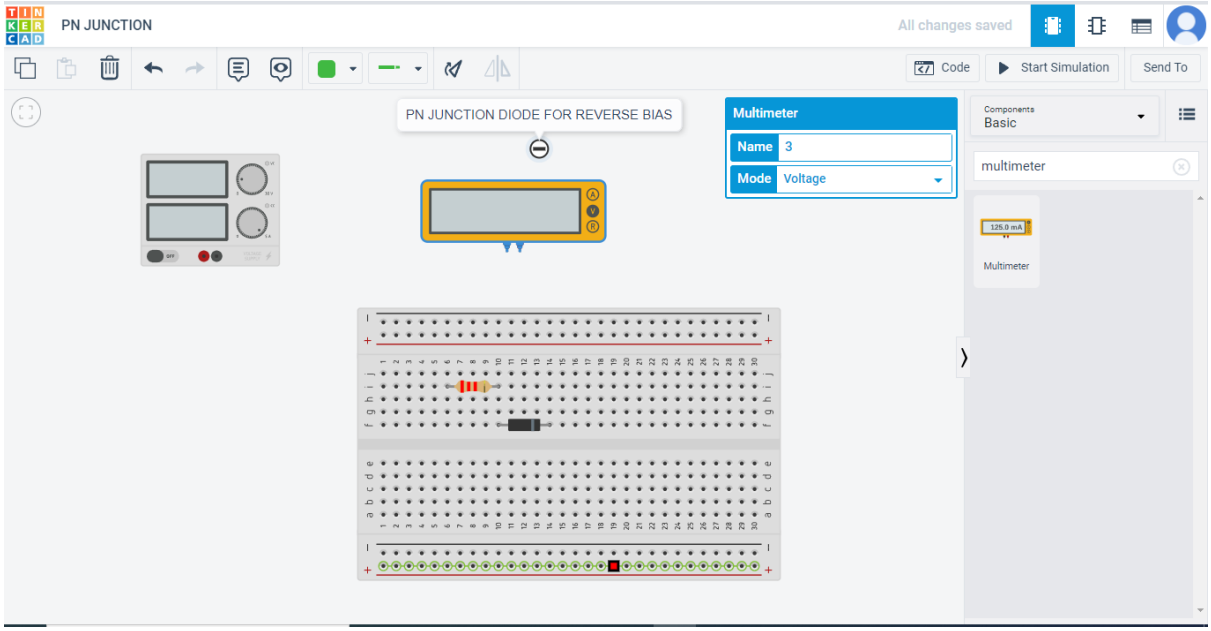


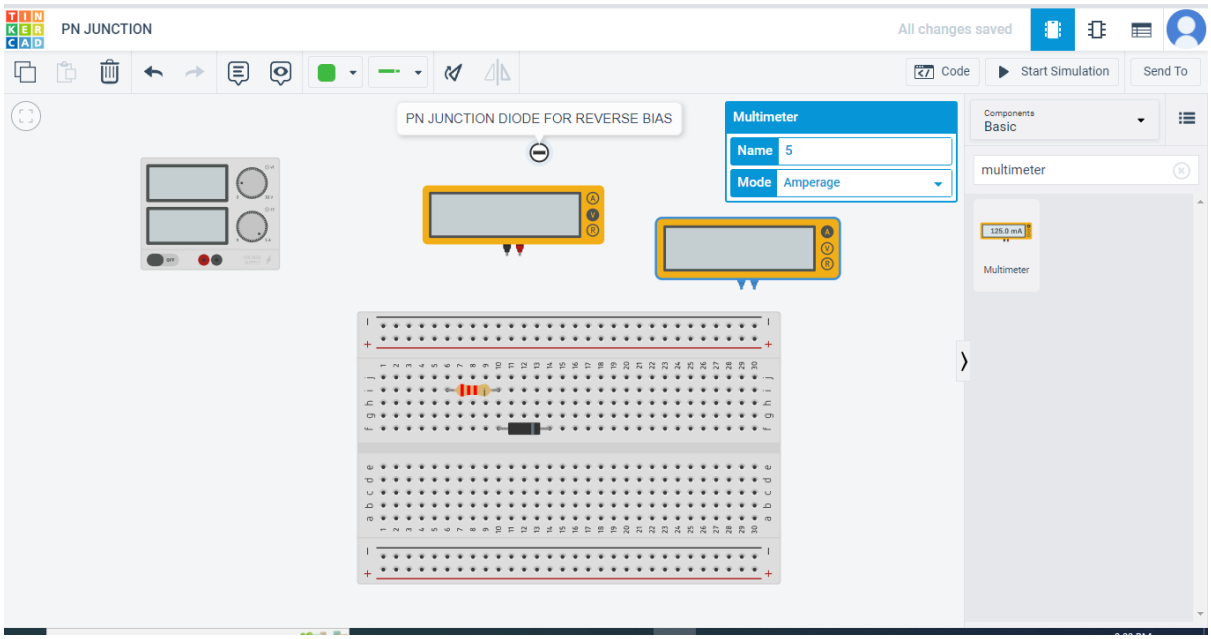


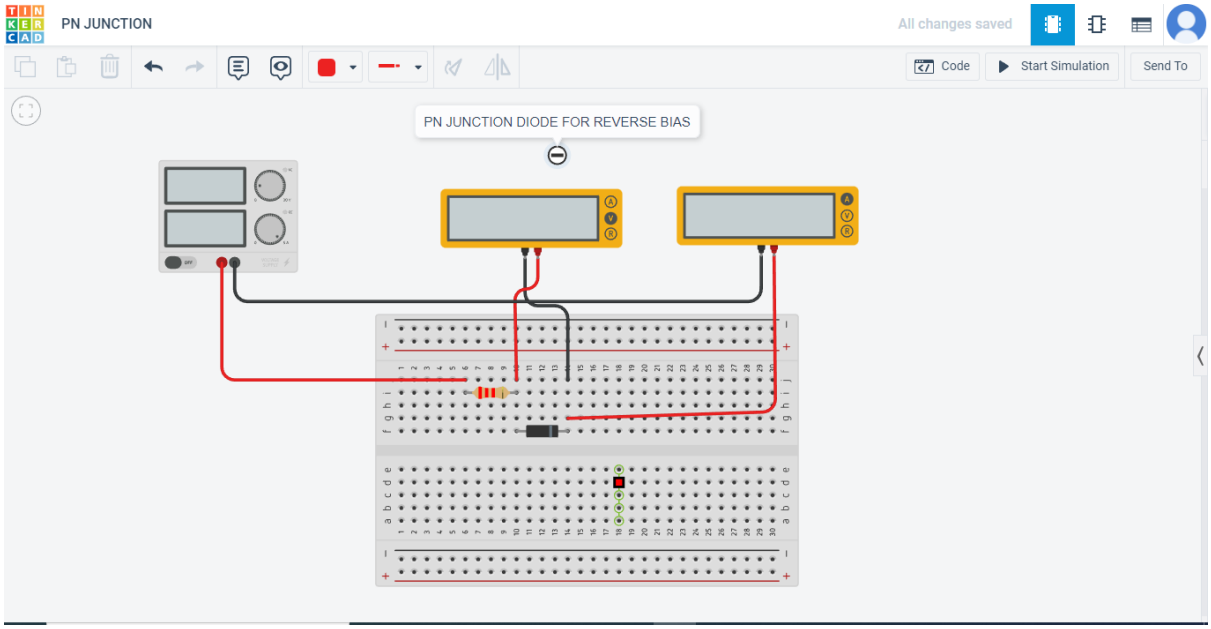

PN JUNCTION
All changes saved
Code
Start Simulation
Send To
PN JUNCTION DIODE FOR REVERSE BIAS
Components
Basic
Search
Resistor
LED
Pushbutton
Potentiometer
Capacitor
Slideswitch
9V Battery
Coin Cell 3V Battery
1.5V Battery
Breadboard Small
micro:bit
Arduino Uno R3

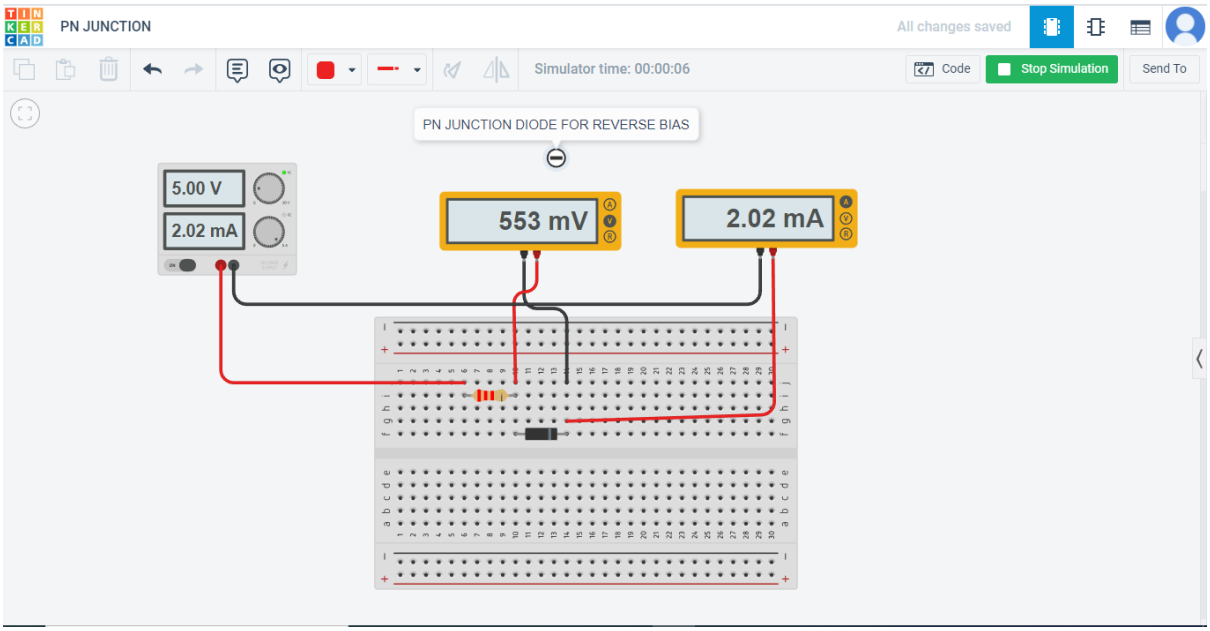

PN JUNCTION
All changes saved
Code
Start Simulation
Send To
PN JUNCTION DIODE FOR REVERSE BIAS
Diode
Name
1
Components
Basic
diode
LED
LED RGB
Diode
Other Components
Zener Diode
Photodiode
Starters
LED Light Up
LED Dimmer
LED Switch

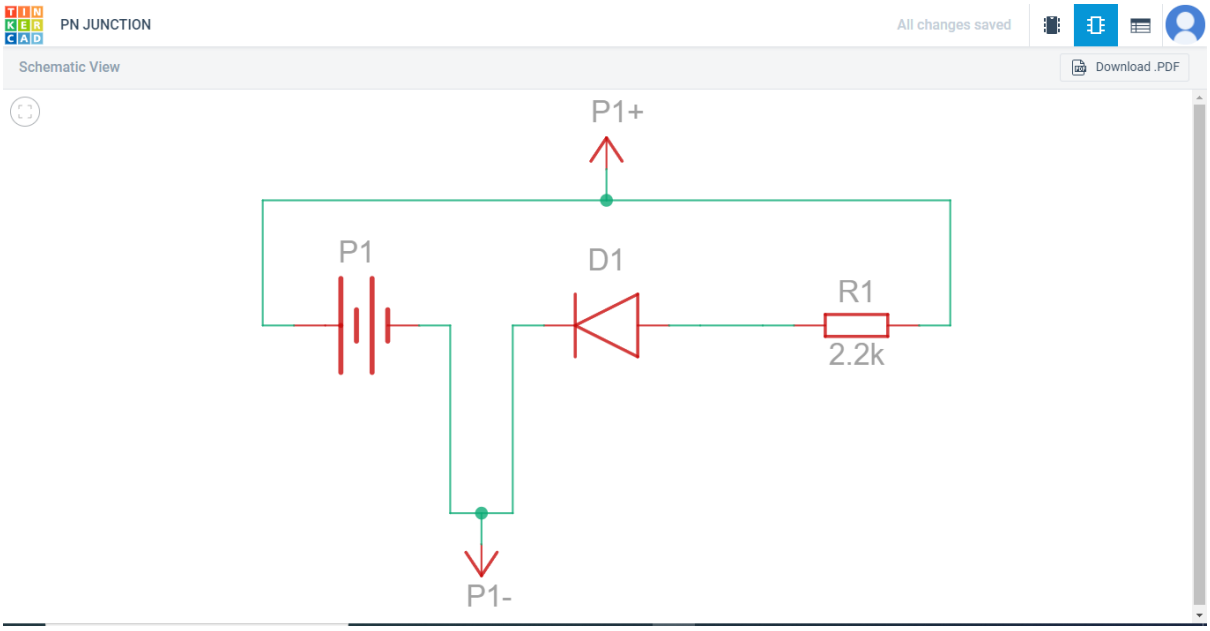

PN JUNCTION
All changes saved
Code
Start Simulation
Send To
PN JUNCTION DIODE FOR REVERSE BIAS
Power Supply
Name 1
Voltage 5
Current 5
Components
Basic
power supply
Other Components
Power Supply
USB standard A
Starters
Voltage Meter
micro:bit breakout


PN JUNCTION
All changes saved
Code
Start Simulation
Send To
PN JUNCTION DIODE FOR REVERSE BIAS
Multimeter
Name 3
Mode Voltage
Components
Basic
multimeter
Multimeter


PN JUNCTION
All changes saved
Code
Start Simulation
Send To
PN JUNCTION DIODE FOR REVERSE BIAS
Multimeter
Name 5
Mode Amperage
Components
Basic
multimeter
Multimeter


PN JUNCTION
All changes saved
Code
Start Simulation
Send To
PN JUNCTION DIODE FOR REVERSE BIAS


PN JUNCTION
All changes saved
Simulator time: 00:00:06
Code
Stop Simulation
Send To
PN JUNCTION DIODE FOR REVERSE BIAS
5.00 V
2.02 mA
553 mV
2.02 mA


PN JUNCTION
All changes saved
Schematic View
Download .PDF
P1+
P1
D1
R1
2.2k
P1-