

EE236 : Electronic Devices Lab

Lab 3 [Tuesday Batch]

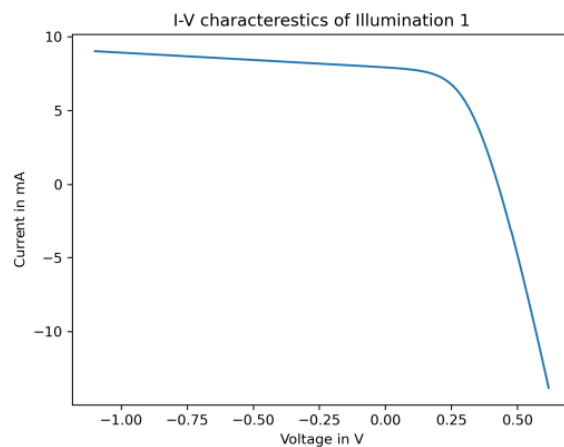
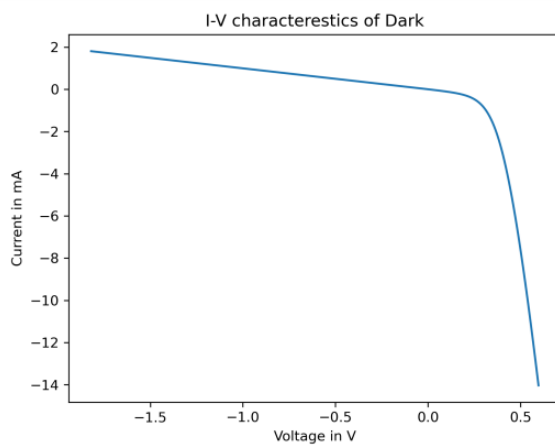
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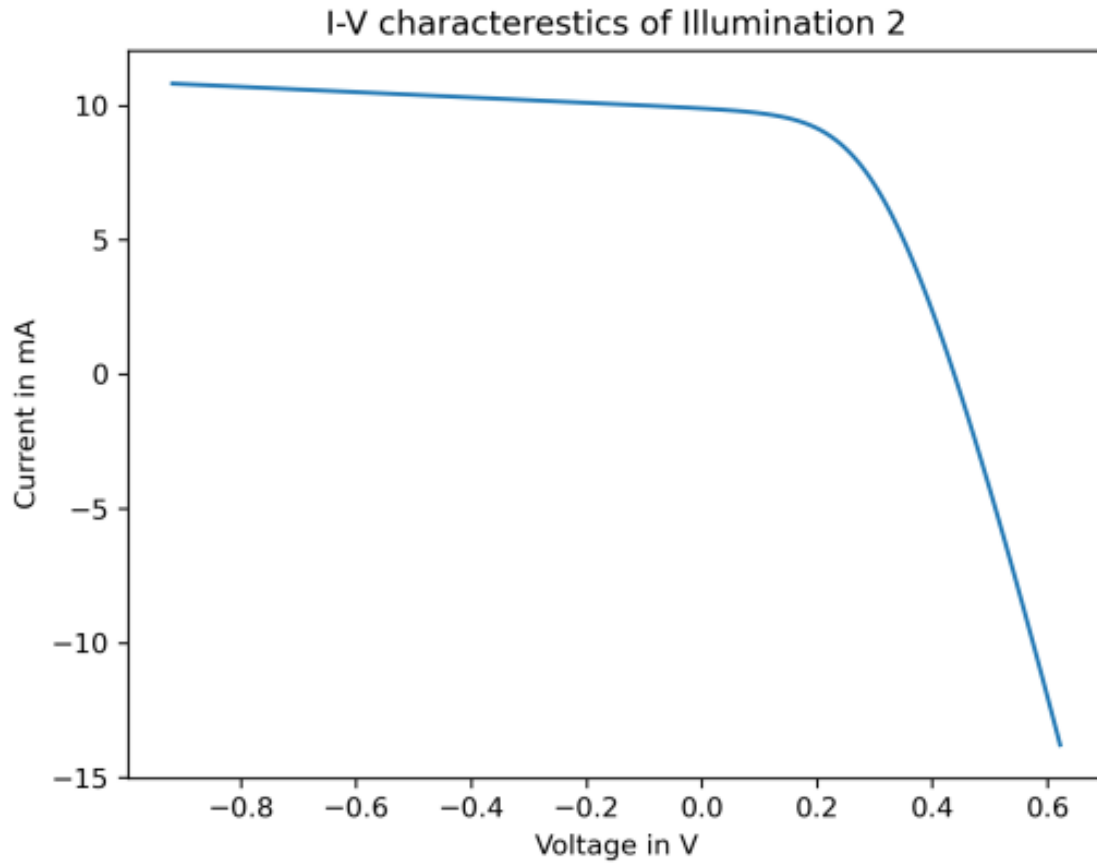
August 27, 2024

1 Netlist

```
1 All in one figures
2 .include solar_cell.txt
3 r0 gnd 2 100
4 xd 1 2 solar_cell
5 vin 1 0 dc 0
6 .dc vin -2 2 0.01
7 .control
8 run
9 plot -i(vin) vs v(1)
10 .endc
11 .end
```

2 I-V characteristics of Solar Cell





3 Values

Parameters	Illumination 1	Illumination 2
V_m (V)	0.279	0.279
I_m (mA)	6.193	7.692
V_{OC} (V)	0.426	0.438
I_{SC} (mA)	7.912	9.890
FF	0.512	0.495