

2.2 Hot Probe:

Voltage is seen to increase in negative voltage, so we see that it is p-type.

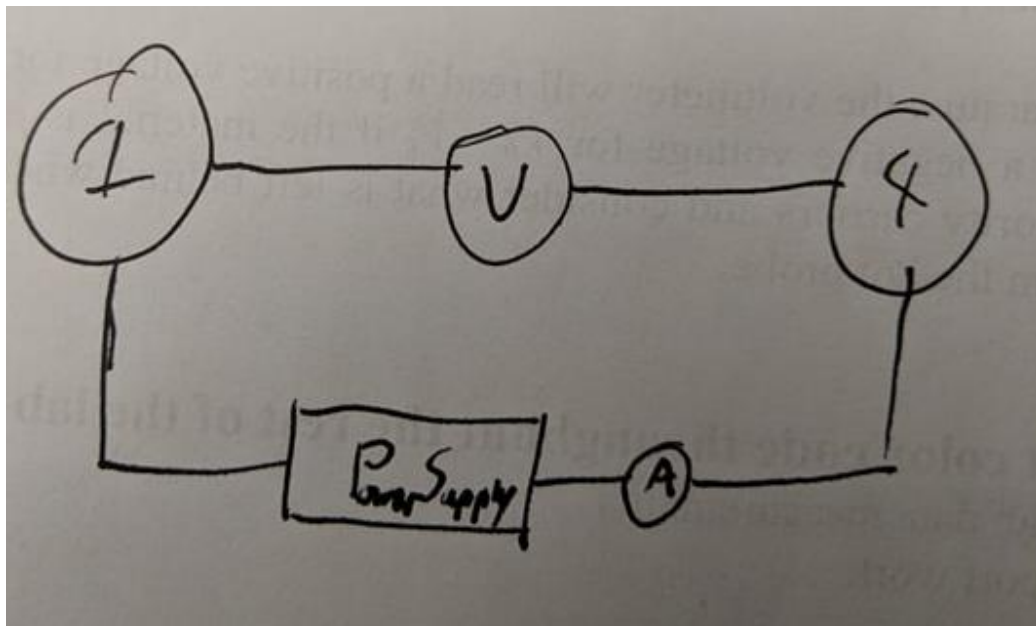
2.3 Four Point Probe:

V (Volts)	I (Amps)	Resistivity (Ohms per cm)
0.0239	0.000243	13.4

2.4 Sheet Resistance:

$V_{1,4}$	$I_{1,4}$	$R_{1,4}$
3.529	1.284×10^{-3}	2738

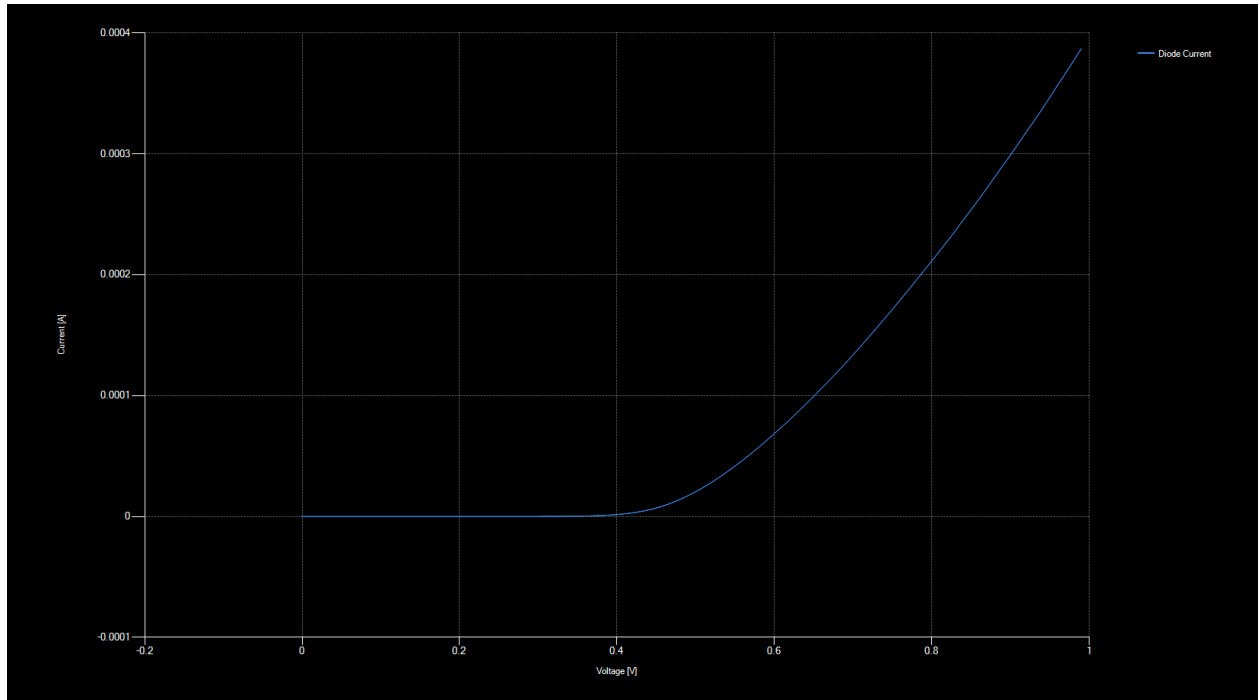
Quick Sketch of Circuit Diagram



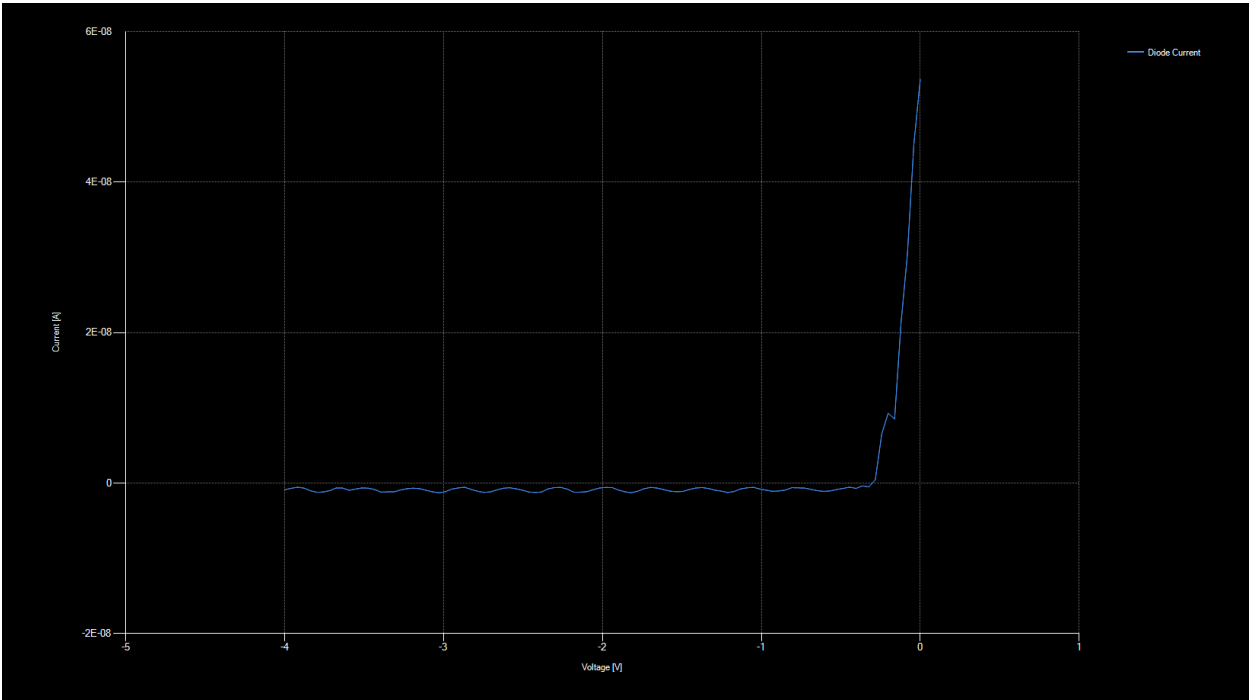
$V_{2,3}$	$I_{1,4}$	$R_{x1,x2}$
2.338	1.39×10^{-3}	1682

2.5 Measurement of Finished Diode:

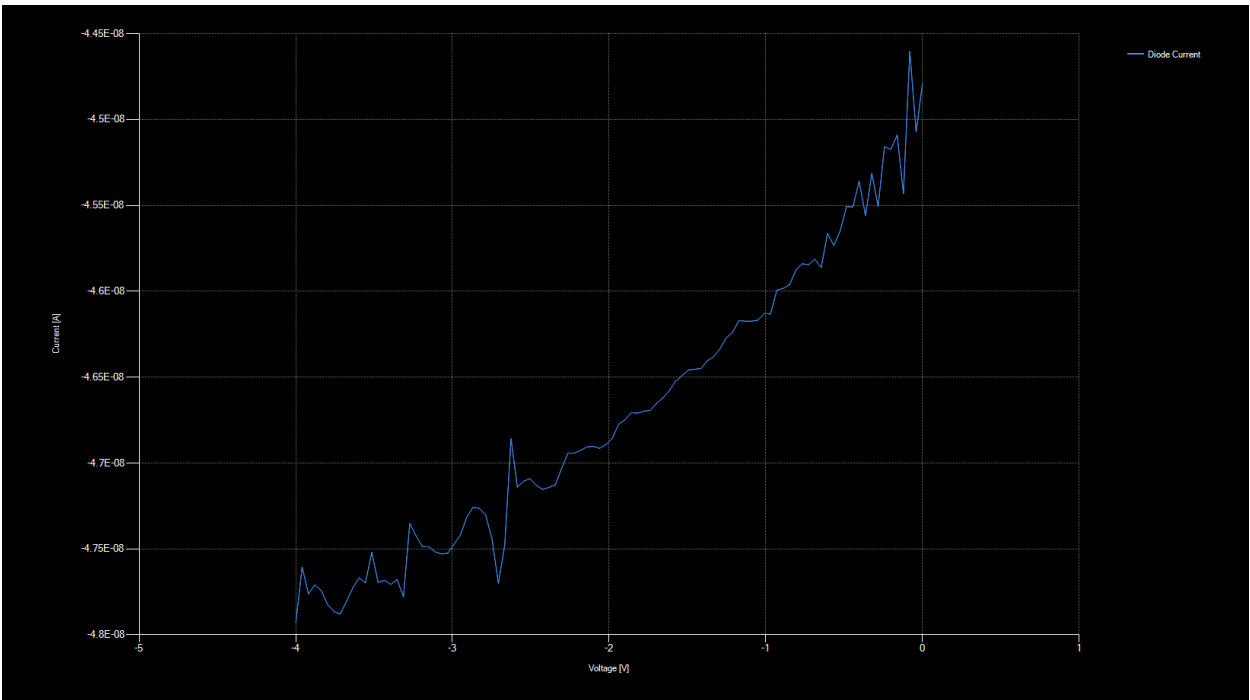
Forward:



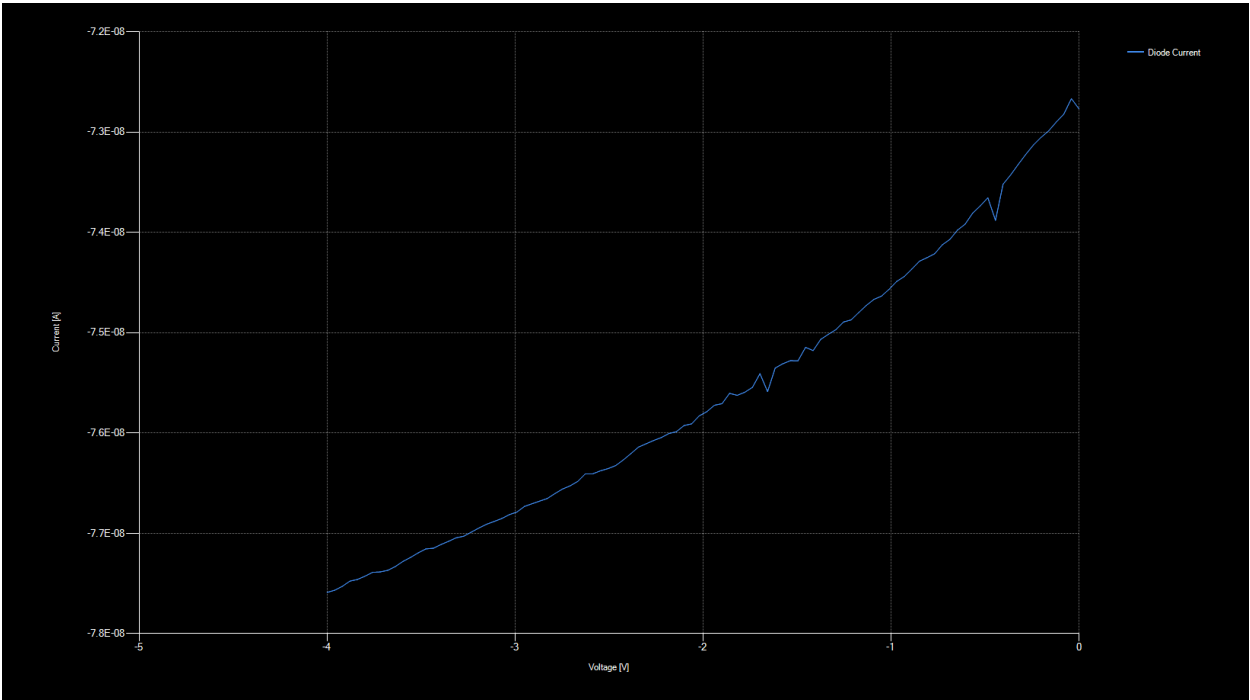
Reverse No Light



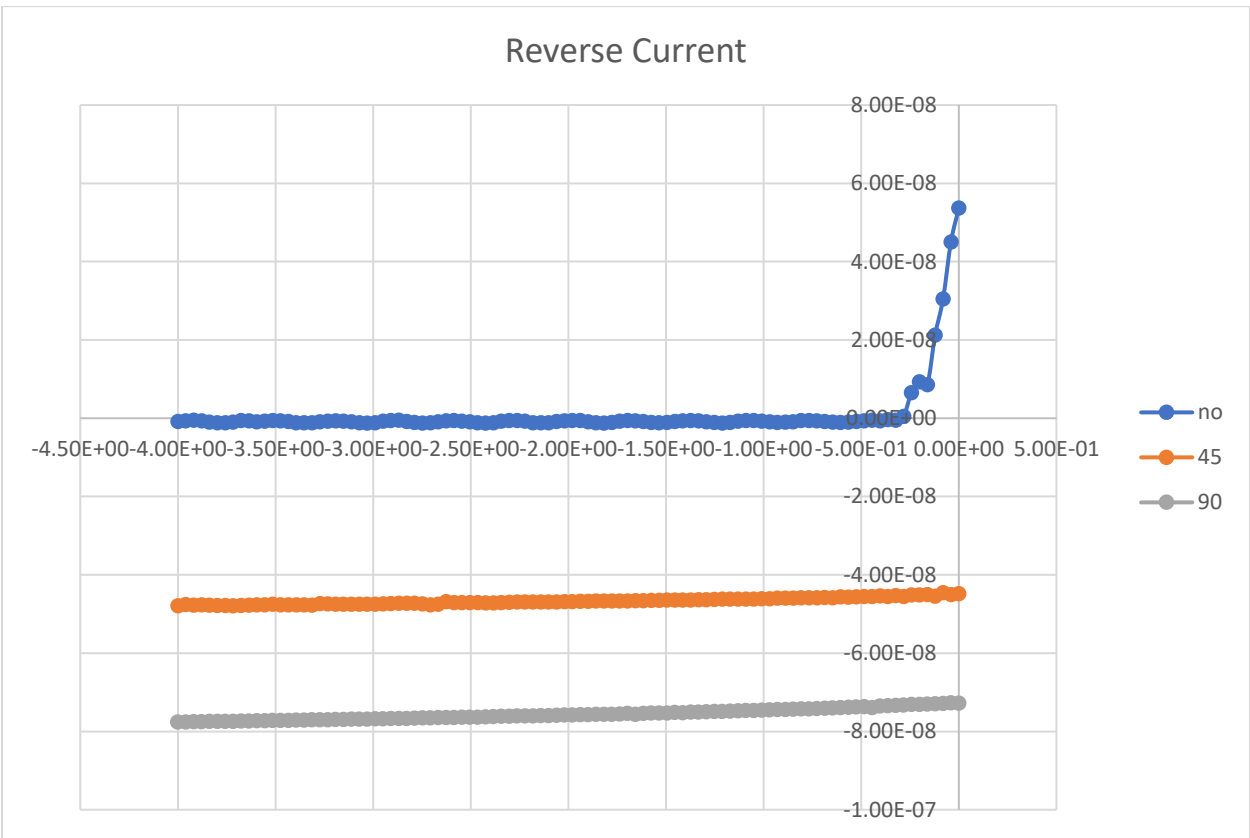
Reverse Mid Light (45)



Reverse High Intensity Light (90)



Reverse Current



2.6 Switching Diode:

	V_f (V)	V_r (V)	t_f (microseconds)	t_s (microsecond)
1	5	-5	50	2.22
2	9	-1	50	8.95
3	3	-7	50	0.47
4	5	-5	5	1.06