

Name: Hunaid Siamuala S.

Subject: Physics

Subject Code: 102001213

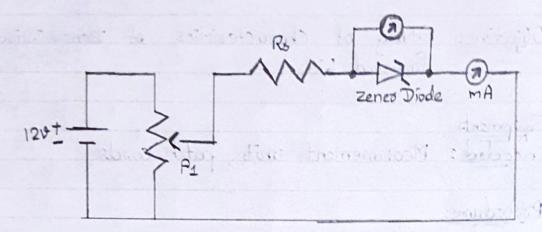
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	* Experiment -2 [Footrand Bias]			
		Objective: Study of Chapacteristics of Zenosa Diode in formand bias.		
		recoded: Measurement unit, patch cords		
•		Procedure:		
0	1.	Before Switch ON' measurement unit, connect the circuit as shown in Figure.		
Add	T Bay	and about the wider of the Color of the Colo		
	2.	Switch ON? the power Supply.		
	3.	Rotate Potentionneters Pr fully in counters clackwise direction.		
6	40 10	Vary the potentionneters P1 so as to increase the value of diode Vo from 0 to 14 in step 8 measure the corresponding values of diode current		
	5.	To in an Observation Table. Plot a curve between diade voltage Vo & current To as shown in nature of graph.		

Crowit Diagram: - Forward Bias (Zeners)



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Observation Table: - Was 100 16 16 16 16 16

-		
Sr. No	Diade Voltage Vo (Volts)	Diode Current To (mA)
1.	10.10° manage with	10.0 0.0 c
2.	0-21	0.0
3.0	11 10:33 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0000
4.	0.41	0.0 in clave.
5.	0.48	0.94 Creeks
6	it is 50.66 solomited	5.941
7.	de 0 0.77 of obs	11.21
winds !	Commissional natures of	of the specialist (

To in an Observation Table.

*	[Reverose Bias]		
	Objective: Study of characteristics of Zenero diade in		
	reverse bias.		
	Equipments		
	needed: Measusement unit, patch coods.		
	Procedure:		
•			
9 1.	Before switch "ON" measurement unit, connect the		
	circuit as shown in figure.		
id to low it	son spoint (Alon) of spot of chief		
	Switch "ON" the powers supply.		
3.	Rotate potentioneter Pr fully in counter clockwise		
	direction.		
h .	Vary the potentiometers Pr so as to increase the value		
•	of diode vo from 14 to 124 in step 2 measure		
	the corresponding values of diade current To in		
	the corresponding values of diade current To in an Observation Table.		
7.3	C		
5.	Plot a curre between diade voltage vo & current To as shown in nature of graph.		
	To as shown in nature of oraph.		
	J		
	Conclusion: -		
	We can conclude how zenes diode works asin		
	forward & in Reverse bias. Also we can able to		
	Known about the broakdown voltage.		
	Mary Grant Mary Mary Mary Mary Mary Mary Mary Mary		
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Circuit Diagram: - Reverse Bias (Zeners) Rs V 2 Zener MA diode P1

Observation whatle:

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GN	Tr 1- 1111 N (111)	Dil. (- + + (-A)
So. No.	Diode Voltage Vo (Volts)	Diode muser To (ML)
1.	the power of 1.0 carried	1/2 do 10 0.0 C
2.	2.1	0.0
3.	o windle 3.05 solariota	100 date 0.0
4.	4.0	66 00
5.	5.0	0.0
6200	of 25 62 691 saboration	9.00
97912	1 3/51 A 7:05 Mich	0.0
1.8.0	shows to 8.0 ml x prints	
9.	8.5 elde?	DIVERSITY OF CONTRACT CONTRACT
10.	9.0	97.6
1 3/	other shall much al	9 9

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