

EXPERIMENT 1 Circuit diagrams-

Hereise Plas, ETSIBALDWIND BOOK HOLLDWIC R=1KA 10-200 MA junction derde APPARATUS ?- Broad tond , Regulated Jours 1. (FOIL MIN 4007 / MINA voltmeter (0.204), connetwelly worses. N- Tupe When pure select is dropped with one of the

Tabular form of steverse biosis it quorp most stransis

1				1	CHOMBIA
	S.No	Vs(v)	VP(V)	JR(uA)	Reverse State
	2)	0.9	-0.84	Semigratucion	acceptant.
	3)	stroof & do	1.00	10- chbroc-sunt	V1=0.55 V2 =0.6
-	(3pc	0,(20) 09	-2.22		26-04-03 320 = 11:00
-	7)	2.5	-2.40	-0.2/	3x00 × 100
4	8)	rdr3 an Jan	- 2.58	6/2	ORTO V2-4
-	10)	cooper by	-3:14	-0.3	72-74 mility 3186 53482
-	12)	4.1 10 4.3 10 10	-3.86	-0.4	. 0.1×10 -6
-	141	4.7 son	-4.29	- 0.4	sold browned or see 5.4×10°
	15)	5.3	- 5.07	- 0.5	2.4 W.V.
-		5.7 .300	B.43	of Toussino	37 Innehmal 78

Reverse bias :-

A P-N junction deade is said to be reversed beas when negative terminal of a battory es connected to the anode and positive terminal is connected to the attade. PROCEDURE ?-

- i) Connections are made as per cercuit diagram
- 11) for forward beas the positive is connected to the anode of the cathode of deade
- iti) switch on power supply and increase input set up voltage en steps.
- ev) Note down corresponding current flowing through dude voltage across the deade for each and every step of the V/p voltage.
- v) The readings of the voltage and current is tabulate. vi) Graph is plotted between voltage and currents.

Reverse beas &-

- e) connections are made as for the cercuit deagram.
- ii) for oreverse bas the Rp, positive terminal is Omected to the cathode or the deode and Rps negative es connected to the anode of the deode.

Medel Graph VI characteristics ?- 3 2014 28 1945 A PAN jurdice delde is vied to be reversed beas when reg SAMITENT at a rathery is corrected to the and posture temeral is concepted to the affect while PROCEDURE ? 1) Connections are made as per coront diagram a) they forward bias the posterie is consided to the a ode of the eathode of chade in) singlet on lemes supply and ansare about set in vol con steps. parell property forms preformances and (v) Haide voltage across the deale for the and ene (v) step of the Vp college v) The readings of the stage and current is tabulate. vi) graph is pietled between vertage and currents e) connecteers are made as for the circuit deagrain. 13) for siver so belief the Rp positive terminal is corrected to the cathode or (OM) & Fode and Rps negative to

about all do show in

mi) Switch on the anode of the deade.

(v) Note down corresponding current Howing through diode voltage across diode for each and every step of enput voltage.

N) step of enput voltage and current flowing through VI) Graph is plotted between voltage and current.

PRECAUTIONS %-

1) All the connections should be correct 11) Pavallel error should be awid while taking the reading from the analgometer.

RESULT %-

v-I characteristics OF P-N junction deade has been observed. In forward bias the current encreases from o.cv onwards. In reverse bias small current flows

Forward static resistance = 0.833 k.r.
Forward dynamic resistance = 0.25 K.r.
Reverse Static resistance = 8 K.r.
Reverse dynamic resistance = 5 K.r.