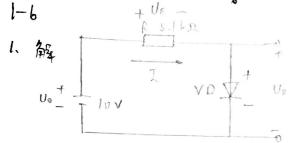
A 20 7 , A 20 V , R , A 3 A A

1-3

P区室只和NEEPRO 大声散电流扩叠大

- (1) 因却区室穴多, N区 时多。然正偏时势垒层/成为男子。 通, 反偏时势垒层增大, 扩散电流/成为、对导通 表现出单向导电。
- (2) 天海电压过大湖温度过高
- (3) 有, 温度越高, 液值电压起小, 反向电流越大, 击穿所需电压越小。



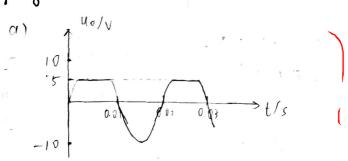
正偏接法根据 KVL:

$$-U_{\bullet} + U_{R} + U_{p} = 0 \qquad U_{\bullet} = 10 V \qquad U_{p} = 0.7V$$

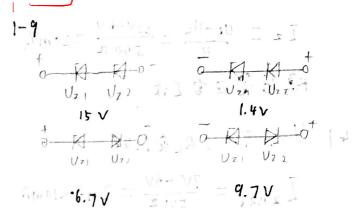
$$U_{R} = 9.3V \qquad I = \frac{V_{R}}{R} = \frac{9.3V}{5.1 \text{ks}} \approx 1.82 \text{mA}$$

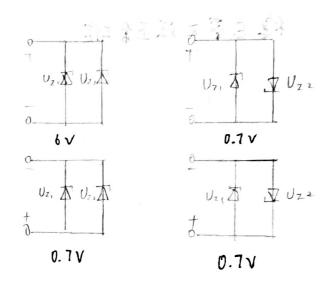
2、温度升高,Un)成十,Un槽大,工增大

1-8



当 uiくち V时、VD Si通、UoこりV 当 ui >5 V时、VD 不多通、UoこりV





1-10

$$I_0 = \frac{U_2}{R_L} = 6 \text{ m A}$$

$$I = \frac{U_1 - U_0}{R} = 28 \text{ m A}$$

$$I_z = I - I_0 = 22 \text{ m A}$$

$$I_{zmax} = \frac{p_{zm}}{U_z} = \frac{200 \text{ m W}}{6 \text{ V}} = 3 \text{ m A}$$

$$10 \text{ m A} < 22 \text{ m A} < 13 \text{ m A}$$

$$43 \text{ fb PB I 常 I (b, /B3 id R)}$$

2.
$$U_{1} = 20 \text{ V}$$
, $R_{L} = 100 \Omega$ g \Rightarrow

$$U_{0} = \frac{R_{L}}{R+R_{L}} U_{1} = \frac{100 \Omega}{500 \Omega + 00 \Omega} \times 20V = 3.3V$$
稳在学天法正常证

$$I_2 = \frac{U_1 - U_2}{R} = \frac{20V - 6V}{500 \Omega} = 28mA$$

稳压管正常工作

$$\frac{1}{2 \text{ max}} = \frac{7V - 6V}{500 \text{ m}} = 2 \text{ mA} < 10 \text{ mA}$$

稳压管无法正常作

V.T.0

.

 $V = 0 \qquad \forall v = 19 \quad V_0 = 0.7 \quad V_0 = 0.7$

VI.O VI.

Ams8.1 = VS# = #V = I

水色直面野

FLAR RVL:

Up)成长、加滑大、工模大 1-1

Vo= といこのり ないショイ・!

Danie - Simit - Amel