CAPITICAL MELETVER KYSTLQD##

TYPI (OR PHOTODIODE WILL OUTPIT 2NA OF CUMMI AT MAX LIGHT (ASSUMED FROM GONDAL MESERACH). I'LL USE A TOLANS IMPENDIANCE AMPLIFICATO AMPLIFICA THE PRECEDED CURRENT WAVEFORM INTO A VOLTAGE WAVEFORM.

I'LL HAVE A +5V RAIL, THIS CITCUIT DITES INTO A HEADPHONE OND.
THATET VOIS IV. THE THATSIMFTEN IS OUTPUTTING A
4 ICHZ BAND WADTH.

SPEC'S |

Tin = 0.15-2NA - O.SNA CHOSEN ARBTOMORNELLY POR

Tin = 0.15-2NA - O.SNA CHOSEN ARBTOMENT AS WONEST SEGMAL

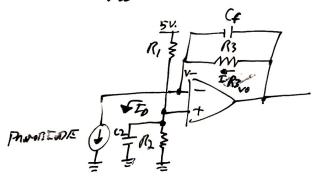
VONT = (VP-P), NOFFENT OF AN OFFSET OF IV ALLOWS FOR

ANDEO SECONDES TO NOT SADERAGE

NEGATIVE RATEL USERY SERVEL

VU = 5V

SUPPLY.



1) SET R3 TO OUT PUT 1 VER = AT MAX FRAT PROPORTIONS CUMMS.

VERM A IVEOFFSET This IS 1.50 MBX

Vh3 =
$$\frac{Vo-V_{-}}{F_{DMAX}} = \frac{1.5V-IV}{2NA} = \frac{0.5V}{2NA} = \frac{0.5V}{2NA} = \frac{250 \text{ K}}{2} = 299 \text{ K}.$$

I WANT TO MAICE MI'S VARIABLE BETWEEN 5000A & 200

LT WARKS FINE FOR Me, Gran to Domine.

(d = 5PF

Com = 4PF

com SEMI 8502030

Phoso Prince IS WÜAHH 154005 1 EN3590

Co = 15PF

(i = 15PF t 5PF t 4PF = 24PF

CAN (R3=250K) = 33.3 KHZ

CAN (R3=1MEG) = 8.33 KHZ

For OPA 322 - 20 mHZ ... MOVERS ON.

4) CALCULATE VALE RESEGRAR BEAS = IV.

$$VREP = |V|$$
 $VREP = \frac{R^2}{R_1 + R_2}$. 5V

 $(\Lambda_1+\Lambda_2)VRFF = \Lambda_2.5V$

$$\begin{pmatrix}
\Lambda_1 + 1 \\
\Lambda_2 + 1
\end{pmatrix}$$

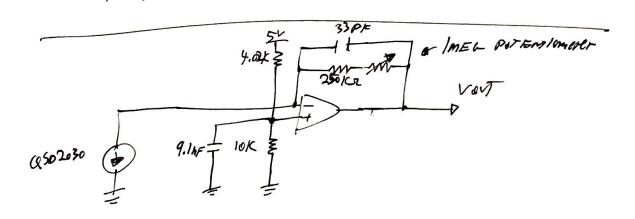
$$MAR = 5V$$

$$\Lambda_1 + \Lambda_2 = 5V$$

$$\Lambda_1 = 40 \times 5V$$

$$R_1 = \left(\frac{5V}{mtr} - 1\right) R_2$$

n=40ks R1=40.2ks n=40ks R2=10ks N=4.02ks N=1ks



REPORM = 1,25 MEL POSSEBLE = 1843 85 KHZ