Now input signal -> Ip. loms	
Jo. 0.012	PmV => 4.1 V orapput.
	0.3mV = 4556 geTn
0. Inv reference voltage -> (0.1A). 0.012 output 4.11	, b. Jmv - 7310 gain
	-
gain E	1 2 4 96 910)
	SOVE V
Bandwidth for R2/B1 gain Gain = 120dB	
R2C > Bandwidth for R2/R1 gain Gain = 120dB	20lag(x)=120
	design of
330k N 12wk	101x) - 6 5x10
330 × 10	X = lob
230 × 2,25M	IM IR:
	, s 1 so A
320 KN 2.25 M 2250 K	10M G7 100 12
4	10M 47 10.2.
2.25×106 H2 = P2C C= /4	
K2C MUND	
m u n p	(A)
= _1 In x1	
- Rex 1×10P	
K2 = 1 2.25×10°×10-1 if C= 10P = 1×10-11C	
1 = 2.25×100×10-1 if C= 10P = 1×10-11C	fc=1P=1x10-12 0=0,1p
$= \frac{10^{3}}{2.25 \times 10^{6} \times h^{-11}}$	- Table 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
$= \frac{10^3}{2.25 \times 10^6 \times 10^{-11}}$	R2=4044k2 => 4440k
	D 4440K
= 4.44.42 = \$ 0.444×105	R1= 971 = 1wn => (000)
- 444kz	10001
	<i>*</i> . *
R= P.72	alv riphs -
It KI = loks	10m/2
R2 = 45560 K	10m/2 - 21
	10ml Omn
= 45MA Bx2.27x106	10/0/
5	9/V -> Q 1,044 NO. 954A
45560 × 103 × 2,25	106 ripple. 0.09A
10-9	
	V=0.09 x 0.0102
= 0-1	×0- ×10-2
-1mV - 10-5	9x6-4v
= 0.876x 10-15	
	4.5x10-4V
tate V	
Vac = 5V 6/0.1ml	/
= 500 =	1.0000 gam
1.5mV ->	
i voint ->	

to Parallel MosfET  $\Rightarrow$  4 stages  $\frac{5A}{4} = 1.25A$  $\frac{1.25A \times 5D}{V} = 6.25V$ 

3.1. Yesistor - sense  $\frac{5}{1.25} = 4$ 0.25.1 min Load (esistance  $\frac{1V}{5A} = 0.25$ .  $\frac{5}{0.25} = 0$  log<sub>2</sub> (20) = 4.32 × 5 stages  $\frac{5A}{5} = 1A$  per branch  $\frac{5$ 

JANSV/4A SS \$14 AIA MIAAIA SV44

IA -> sense resistor

4A  $1^{2}R = 0.15 W$ Power resistor  $4^{2}=16 \times R = 0.25$   $R = \frac{0.21}{16}$ 

But if 4 stages - each stage has 114

 $5 \text{ stages} \qquad 7 + 7 + 7 + 7 = 4$   $5 \text{ stages} \qquad 4 = 0.25 \Lambda$ 

each branch: \f = 0.8 A

 $1A \rightarrow J^{2}R \rightarrow R=1/2$   $J^{2}R=1W & X (0.25W) (0.4) \times 1 = 0.16W$ 

0.25W 0.2W  $1^2 = 0.2$ 

Vief - IV

Vinput = 1.00014 V N & PPRETV

+ 0.14mV N - D.13mV. 
$$\rightarrow$$
 output Vont = 5.47442V

Vac = lov Vss = GND N 5.47372 V

Gain =  $\frac{5.47}{0.1 \times 10^{-6}} = \frac{5.47 \times 10^{4}}{54700} \times 0.25MH2$ 

$$0.5mV \rightarrow 5V)$$

$$\frac{5}{4\pi \sqrt{3}} = \frac{1}{4\pi \sqrt{3}} = 10^{6}.$$

