302

Ea

lov

326381944 INGIE 5m

: 7 fen - my

(c) four four to 4.0 = 38V known to pay or research of restor to 4.0 = 38V known (c) (c) (c)

(VBE=-0.7V:)

VBB=BB·IB-VBE

3=60IB-0.7

IB= 0.06166mA = 61.66uA

IC= B. IB = 150. 0.06166 = 9.25mA

IE=IB-IC=0.06166-9.25=9.312mA

RB GOKA VBB E1 3V VBE

(VBE = 0.7V:)

VBB= RB. IB-VBE

3= GOIB - 0.7

 $\frac{2.3}{60}$ = IB = 0.03833m A = 38.33uA

IC=B. IB = 150.0.03833 = 5.75mA

IE=IB+Ic=0.03833+5.75=5,7 8833 mA

VBB-IB-RB-VBE

Ic=B. IB

5= 100-IB

IB=0.05mA=50uA

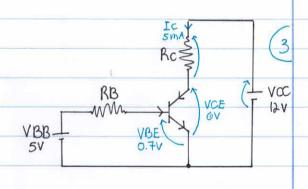
5 = 0.05. AB+0.7

4.3 0.05 = RB = 86 KA

Vc=Ic.Rc-VCE

12=5. BC-6

5= RC=1.2K_D



1 penn

15=5IB+0.7

326381944 INGIE 5

UBC = BC.IC = 0.5.228.8 = 114.4 V, VCC = 15 V => 311170 5108 Vout = VCE = VCE sat = 0.2 = 218 "0"

NOT 250 ENNN (CfN)

fair gra chor no=uin.

10072 31000 => IB=0=> IC=0=> VAC=0

VCC = URC - VCE

15=0 - VCE

VCE = 15V

: Vin= sv קיסת אז = אול

VBB=IB.RB-VBE

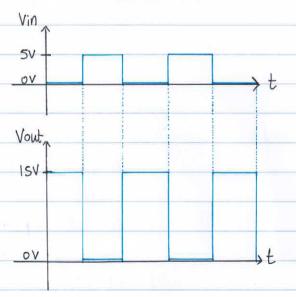
5=5LB-0.7

 $\frac{4.3}{5} = IB = 0.86 \text{ mA}$

IC=B. IB=80.0.86=68.8 mA

URC= RC. IC = 0.5. 68.8 = 34.4 V, VCC= 15V => nino 3,000

Vout= VCE = VCE sat = 0,2V = 'cif" "0"



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326381944 pulic 55

А	В	2503	Vout
_ 0	0	IB=0 => Ic=0 ⇒ URC = 0 > VCE = 5 V = 1016"11" 110 (pa 31) (n)	1
0	1	VCE = VCE sat = Vout=0.2=1216 "0" 21122 3120	0
1	0	11	0
)	1	n	0

NOR HE ENNN LOTUS

ם - החישוב הוא אל סמק מציאת ארך מינימלי לאל כדי פיזיף למצב רוויה לבור הקיסות rialive copy of

חסר של האוצר פארו האוצר פארו האוצר פארו האוצר בארו האוצר באוני אותר של ההסים A=5V

(כי המסים חיוםי יותר מהאמילה ב- 3.7 והאמילה מחופר לאצמה)

(5-0.7-0.7=3.6) URB=3.6V e pol 1/67) Syn SN IB= URB = 3.6 = 0.12

IC=3. IB=25.0.12=3mA

: DIL PLAY

SPORT OF THE STREET OF THE STREE

9 2- Jaic for VB = 0V 48A 21 6612.

Jaic for VB = 0V 100 6612.

VBB=IB. RB-VBE

5= IB. 20 -0.7

4.3 = IB = 0.215mA=21.5uA

IC = B. IB = 100. 0.215 = 21.5mA

URC= IC. RC = 21. 5.0.5 - 10.75V, VCC=5V=> .711172 3,0C7

	VA	VB	: า२०ฦ	Vout	
	0	0	IB=0=>IC=0=> URC=0=> VCE=5 V= といより 10の2 50の	Л	
	0	1	VcEsat = Vout = 0.2='d6"0" poli ynome on alla 3/100		
1		0	, , , , ,	0	
	1)	n	0	

- Penn-

ואסא האוא המתקבל הינו שאר NON

VCC = URC - VCE sat

5= VRC+0.2

VRC= 4.8 V

URC=IC.RC

4.8=Ic.0.5

4.8 0.5 = Ic = 9.6mA

Ic= B. IB

9.6=)00.IB 9.6 100 = JB= 0.090mA = 96 uA

URB=IB. RB = 0.096.20=1.92V

VBB = VBB - VCE

VBB=1.92+0.7=2.02V