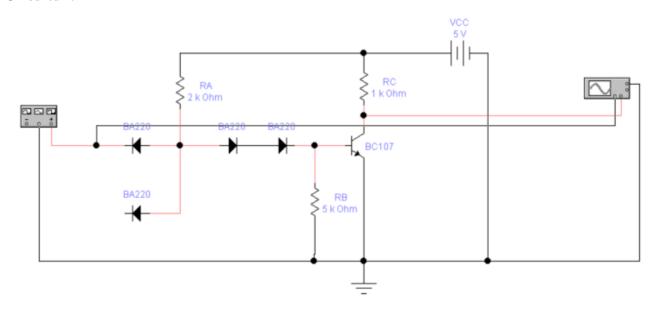
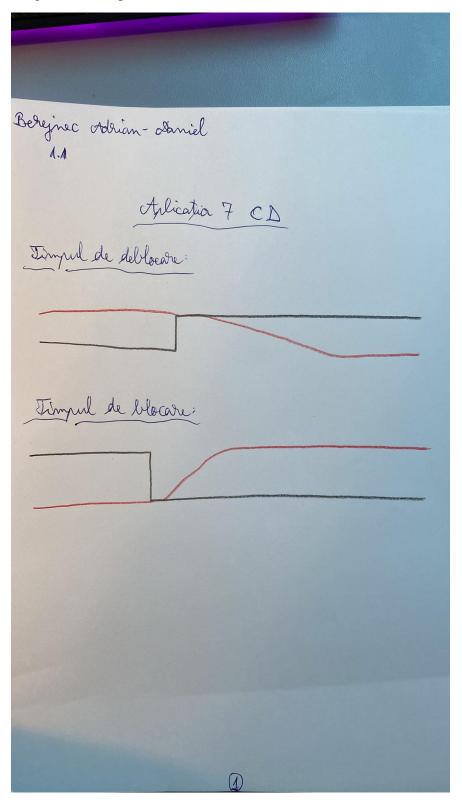
Berejnec Adrian-Daniel 1.1

Aplicatia 7 CD

Circuitul:



Diagrame de timp:



Masuratorile pentru cei 2 timpi pentru toate combinatiile de rezistente:

		1 - 0	T	1	
$R_{A1} = 1K$	$R_{B1} = 3K$	$R_{C1} = 0.6K$	$t_{db} = 15 \text{ ns}$	$t_{bl} = 175 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C2} = 1K$	$t_{db} = 14 \text{ ns}$	$t_{bl} = 177 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C3} = 2K$	$t_{db} = 13 \text{ ns}$	$t_{bl} = 180 \text{ ns}$	t _{db} scade,
					t _{bl} creste
	$R_{B2} = 6.3K$	$R_{C1} = 0.6K$	$t_{db} = 15 \text{ ns}$	$t_{bl} = 286 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C2} = 1K$	$t_{db} = 14,5 \text{ ns}$	$t_{bl} = 293 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C3} = 2K$	$t_{db} = 12,5 \text{ ns}$	$t_{bl} = 300 \text{ ns}$	t _{db} scade,
			,		t _{bl} creste
	$R_{B3} = 10K$	$R_{C1} = 0.6K$	$t_{db} = 14 \text{ ns}$	$t_{bl} = 438 \text{ ns}$	t _{db} scade,
	B3 -				t _{bl} creste
		$R_{C2} = 1K$	$t_{db} = 13.8 \text{ ns}$	$t_{bl} = 440 \text{ ns}$	t _{db} scade,
		1102 111	10,0 115	101	t _{bl} creste
		$R_{C3} = 2K$	$t_{db} = 12,5 \text{ ns}$	$t_{bl} = 445 \text{ ns}$	t _{db} scade,
		103 – 210			t _{bl} creste
	$R_{B4} = 20K$	$R_{C1} = 0.6K$	$t_{db} = 16 \text{ ns}$	$t_{bl} = 720 \text{ ns}$	t _{db} scade,
	1684 – 2016	KC1 = 0,01X		101 - 720 113	t _{bl} creste
		$R_{C2} = 1K$	$t_{db} = 14 \text{ ns}$	$t_{bl} = 733 \text{ ns}$	t _{db} scade,
		$RC_2 = TR$	t _{db} = 1+113	$t_{01} = 755 \text{ Hs}$	t _{bl} creste
		$R_{C3} = 2K$	$t_{db} = 13 \text{ ns}$	$t_{bl} = 755 \text{ ns}$	
		$\mathbf{KC3} = 2\mathbf{K}$	tdb - 13 118	tbl - 755 HS	t _{db} scade,
$\mathbf{p}_{12} = 2V$	$\mathbf{p}_{-1} = 2V$	D = - 0 6V	t = 20 ns	t 160 ng	t _{bl} creste
$R_{A2} = 2K$	$R_{B1} = 3K$	$R_{C1} = 0.6K$	$t_{db} = 30 \text{ ns}$	$t_{bl} = 168 \text{ ns}$	t _{db} scade,
		$\mathbf{D} = 1V$	t - 20 mg	t = 172 ng	t _{bl} creste
		$R_{C2} = 1K$	$t_{db} = 28 \text{ ns}$	$t_{bl} = 172 \text{ ns}$	t _{db} scade,
		D OV	4 26	172	t _{bl} creste
		$R_{C3} = 2K$	$t_{db} = 26 \text{ ns}$	$t_{bl} = 173 \text{ ns}$	t _{db} scade,
	D 6 217	D 0 CIZ	. 20	260	t _{bl} creste
	$R_{B2} = 6.3K$	$R_{C1} = 0.6K$	$t_{db} = 29 \text{ ns}$	$t_{bl} = 260 \text{ ns}$	t _{db} scade,
		D 117	. 27	277	t _{bl} creste
		$R_{C2} = 1K$	$t_{db} = 27 \text{ ns}$	$t_{bl} = 277 \text{ ns}$	t _{db} scade,
	_	D 277		200	t _{bl} creste
		$R_{C3} = 2K$	$t_{db} = 24 \text{ ns}$	$t_{bl} = 290 \text{ ns}$	t _{db} scade,
		<u> </u>			t _{bl} creste
	$R_{B3} = 10K$	$R_{C1} = 0.6K$	$t_{db} = 29 \text{ ns}$	$t_{bl} = 450 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C2} = 1K$	$t_{db} = 28 \text{ ns}$	$t_{bl} = 452 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C3} = 2K$	$t_{db} = 26 \text{ ns}$	$t_{bl} = 456 \text{ ns}$	t _{db} scade,
					t _{bl} creste
	$R_{B4} = 20K$	$R_{C1} = 0.6K$	$t_{db} = 29 \text{ ns}$	$t_{bl} = 808 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C2} = 1K$	$t_{db} = 27 \text{ ns}$	$t_{bl} = 832 \text{ ns}$	t _{db} scade,
		<u> </u>			t _{bl} creste
	•	•	•	•	•

		$R_{C3} = 2K$	$t_{db} = 26 \text{ ns}$	$t_{bl} = 835 \text{ ns}$	t _{db} scade,
		KC3 – 2IX	tub = 20 Hs	t ₀₁ = 033 Hs	,
D 5 221/	D 21/	D OCK	4 115	107	t _{b1} creste
$R_{A3} = 5,33K$	$R_{B1} = 3K$	$R_{C1} = 0.6K$	$t_{db} = 115 \text{ ns}$	$t_{bl} = 127 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C2} = 1K$	$t_{db} = 100 \text{ ns}$	$t_{bl} = 147 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C3} = 2K$	$t_{db} = 89 \text{ ns}$	$t_{bl} = 163 \text{ ns}$	t _{db} scade,
					t _{bl} creste
	$R_{B2} = 6.3K$	$R_{C1} = 0.6K$	$t_{db} = 82 \text{ ns}$	$t_{bl} = 230 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C2} = 1K$	$t_{db} = 73 \text{ ns}$	$t_{bl} = 270 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C3} = 2K$	$t_{db} = 71 \text{ ns}$	$t_{bl} = 292 \text{ ns}$	t _{db} scade,
					t _{bl} creste
	$R_{B3} = 10K$	$R_{C1} = 0.6K$	$t_{db} = 85 \text{ ns}$	$t_{bl} = 462 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C2} = 1K$	$t_{db} = 74 \text{ ns}$	$t_{bl} = 476 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C3} = 2K$	$t_{db} = 67 \text{ ns}$	$t_{bl} = 483 \text{ ns}$	t _{db} scade,
					t _{bl} creste
	$R_{B4} = 20K$	$R_{C1} = 0.6K$	$t_{db} = 76 \text{ ns}$	$t_{bl} = 770 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C2} = 1K$	$t_{db} = 73 \text{ ns}$	$t_{bl} = 884 \text{ ns}$	t _{db} scade,
					t _{bl} creste
		$R_{C3} = 2K$	$t_{db} = 71 \text{ ns}$	$t_{bl} = 932 \text{ ns}$	t _{db} scade,
					t _{bl} creste

Dupa aceste masuratori, putem spune ca timpul de blocare este mai mare decat timpul de deblocare. Timpul de blocare creste odata cu cresterea rezistentei, in timp ce timpul de deblocare scade pe masura ce rezistenta scade.