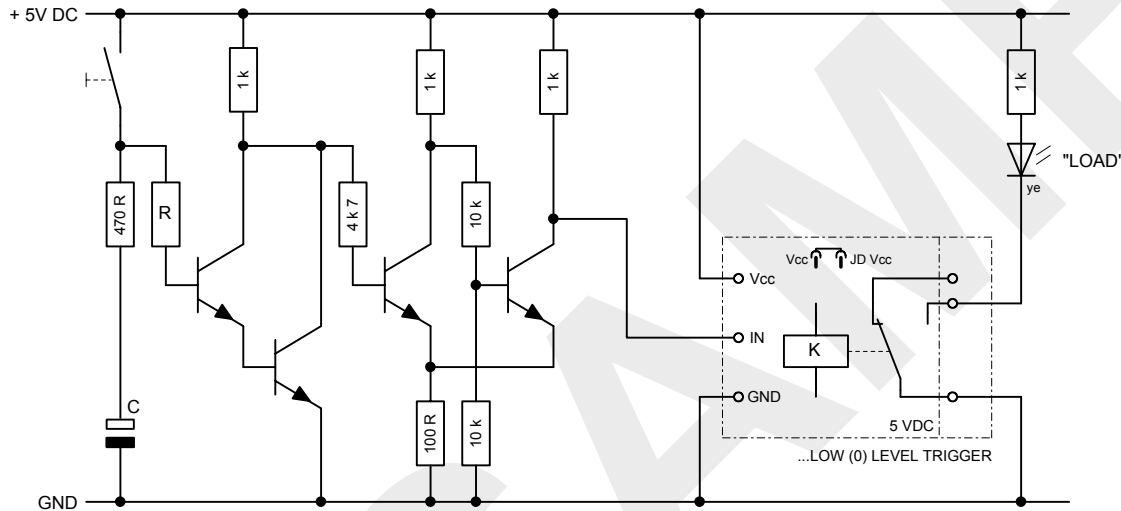
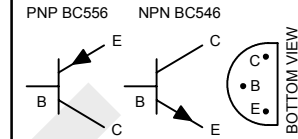


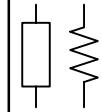
5 VDC 1 CHANNEL RELAY MODULE, DELAY OFF FUNCTION WITH DARLINGTON CIRCUIT + SCHMITT-TRIGGER



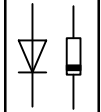
TRANSISTOR



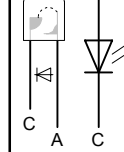
RESISTOR:



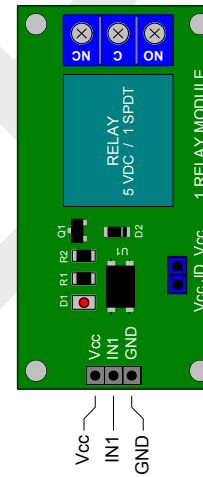
DIODE:



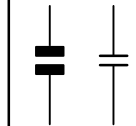
LED:



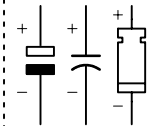
5V 1 CH. RELAY MODULE:



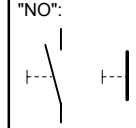
CAPACITOR:



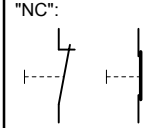
(POLARIZED)



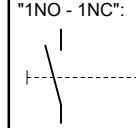
PUSH BUTTON "NO":



PUSH BUTTON "NC":



PUSH BUTTON "1NO - 1NC":



PUSH BUTTON "SPDT":



TIME DELAY SETTING

C	R = 10 k	R = 22 k	R = 47 k	R = 100 k	R = 220 k	R = 470 k	R = 1 M
1 µF					1.0 sec.	1.5 sec.	2.1 sec.
2.2 µF				1.3 sec.	2.2 sec.	3.3 sec.	4.6 sec.
4.7 µF	1.0 sec.	1.4 sec.	1.9 sec.	2.8 sec.	4.8 sec.	7.0 sec.	10.0 sec.
10 µF	2.2 sec.	3.0 sec.	4.0 sec.	6.0 sec.	10.0 sec.	15.0 sec.	21.0 sec.
22 µF	4.8 sec.	6.6 sec.	8.8 sec.	13.0 sec.	22.0 sec.	33.0 sec.	46.0 sec.
47 µF	10.0 sec.	14.0 sec.	19.0 sec.	28.0 sec.	48.0 sec.	1.1 min.	1.5 min.
100 µF	22.0 sec.	30.0 sec.	40.0 sec.	1.0 min.	1.7 min.	2.5 min.	3.5 min.
220 µF	48.0 sec.	1.1 min.	1.5 min.	2.2 min.	3.7 min.	5.5 min.	7.5 min.
470 µF	1.7 min.	2.4 min.	3.1 min.	4.7 min.	8.0 min.	12.0 min.	17.0 min.
1000 µF	3.7 min.	5.0 min.	6.7 min.	10.0 min.	17.0 min.	25.0 min.	35.0 min.

...APPROXIMATELY ONLY, BECAUSE OF "C & R" TOLERANCES...

FOR FULLY COMPONENT SPECS. SEE MANUFACTURER DATASHEETS

RY-5	A4	udo@elgers.com	ue-ERT20220204-10	04-FEB-2022
014	A	1CH. RELAY MODULE - EXPERIMENT 10		