2022/06/18
MAX16054AZT -> push button on/off controller
Complementary output OUT & OUT (inverted state)
+2.7V ~ 5.5 V single supply this case 5V supply.
Clased switch: OUT high & OUT Law
e Again closed switch: OUT law & DUT high
Vout = (0.7 N Vcc-1)
SX74LVC1G3157DBVR -> Single channel single-pole double-throw (SPDT)
analog switch
-> permits signals with amplitudes up of up to Vcc (peak) to
be transmitted in either direction. B1/B2 \implies A
Setpoint 1 ~ 2 Switch by the push button (click-switch)
Vcc
Re B2. B Track/SS pin.
C T M S
Push button control
THE PARTY OF THE P
adjust (setpoint 1) to 2V > B1 giravit) Wet Track Supply
adjust (setpoint 1) to $2V \Rightarrow B1$ circuit Vont Track Supply. Setpoint 2) to $4V \Rightarrow B1$ circuit
$\frac{V_{X}}{V_{\text{out}}} = \frac{RA}{R} \times \frac{R + rackA}{R + RB}$ $\frac{V_{X}}{V_{\text{out}}} = \frac{RA}{R + RB} \times \frac{R + RB}{R + RB}$ $\frac{V_{X}}{V_{\text{out}}} = V_{\text{out}} = V_{\text{out}} \times \frac{R + RB}{R + RB}$ $\frac{V_{X}}{V_{\text{out}}} = V_{\text{out}} = V_{\text{out}} \times \frac{R + RB}{R + RB}$
Vx RA RTYackB
Vout KTrack-A RA + RB
State Setpoint = Vsc = Vx × RTOA = 2 or 4 V
∧IA ₹ KTB
$\frac{V_{\text{out}} + \frac{V_{\text{X}}}{V_{\text{out}}} = \frac{R_{\text{A}}}{K_{\text{A}} + R_{\text{B}}} \times \frac{R_{\text{TA}} + R_{\text{TB}}}{R_{\text{TA}}}$
₹ Rs
FB VXXRTA+RTB RA Voit Rat RB
FB VXXRTA + RTB RA Vocat Ra + RB
1 /2
Vant RAFRE
Setpoint 1/2 2 or 4V = RA+RB × Voint.
KA+RB KA+RB
Vont = (2 or 4V) × KA + RB RA + RB

Voit =
$$\sqrt{x} \cdot \frac{RTA}{RTA} \times \frac{RA + RB}{RA} = 2 \text{ or } 4 \text{ V}$$

here is 5 V supply

Set point 1 set point 2.

$$V_{\text{out}} = 5 \times \frac{1.2 \text{k}}{10 \text{k} + 1.2 \text{k}} \times \frac{499 + 82}{82}$$