On/Off Control Using Remote Control (RC) Pin
In some applications it is necessary to have a precise turn on and turn off level. The circuit below is useful for setting turn on and turn off in the range of 18-75 V.

The voltage level for turn off is set by resistors R1 and R2. The turn On level is given by R2 in parallel with R6. A lower value on R6 will increase the hysteresis and a higher value will decrease it.

\[ \text{Voff} = 2.495 \times \frac{(R1 + R2)}{R2} \]

The following values were used to set turn On at 20.15 V and turn Off at 19.53 V:

- R1, R3: 15 kΩ, 0.5 W
- R2: 2.2 kΩ
- R4: 220 kΩ
- R5: 15 kΩ
- R6: 47 kΩ
- R7: 330 kΩ
- D1: TL431 programmable reference diode
- D2, D3: 1N4148 or similar
- Q1: 2N5551 or similar

Resistors 0.25 W unless otherwise stated.
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