



## APPLICATION NOTE

ration value, Threshold voltage is decreased via a resistor bridge R3/R4 to 0.66V.

$$V_{th} = (2R_4 - R_3) / (3R_4) \times V_{cc}$$

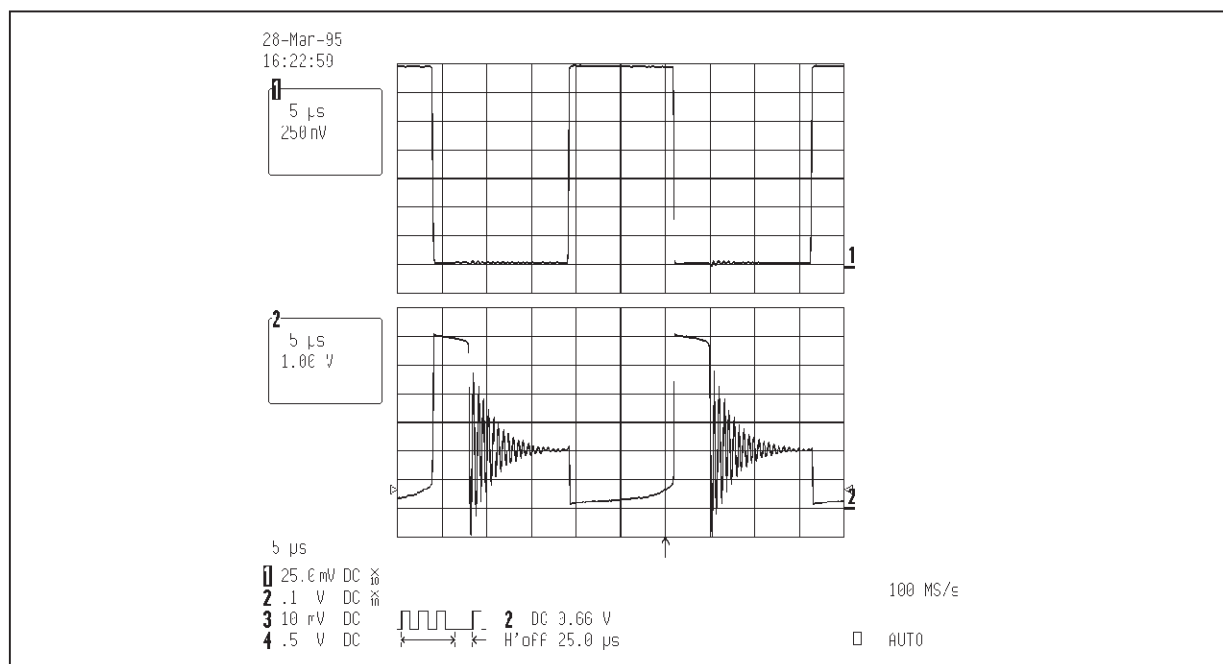
To avoid any undesired triggering at the beginning of the inductor charge cycle, during NPN switching time (collector voltage is at Vcc), it is necessary to connect a resistor to Discharge pin(7) to decrease the Threshold input voltage below 2/3 of Vcc.

### SPECIAL PRECAUTIONS

Accuracy of output voltage depend on accuracy of R1/R2 and internal (2% typ) bridge, internal comparator offset (10mV typ) and Output(3) Ron. Therefore, high resistor values must be used to limit influence of Ron dispersion. Trigger input current is negligible in the pA range.

Any capacitance on Trigger input will increase re-start time, decreasing maximum current capability of the circuit, but will improve frequency stability.

Figure 2 : OUT (1) and NPN Collector (2)



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