

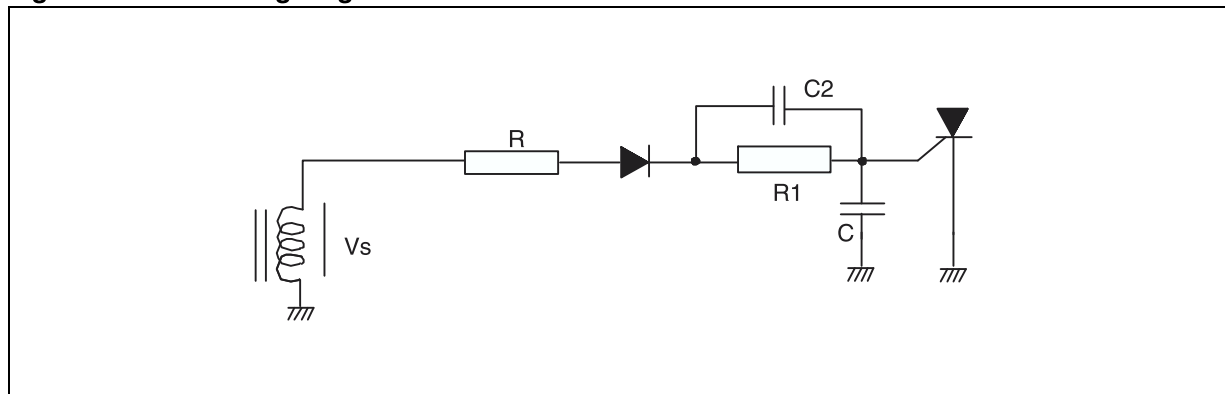
AN819 APPLICATION NOTE

The sensor coil generates, at each engine revolution a signal as shown in Figure 7.

The negative part of this signal is clamped by D4 while the positive part produces a current through the gate, firing the SCR.

Due to parasitic voltage occurring on the sensor signal we suggest the use of the conditioning stage shown in Figure 8.

Figure 8. Conditioning stage



This gate drive circuit, using $R1$ between 1 and 10k Ω and $C1$ between 1 and 10 μ F allows the SCR to run without problems of parasitic firing.