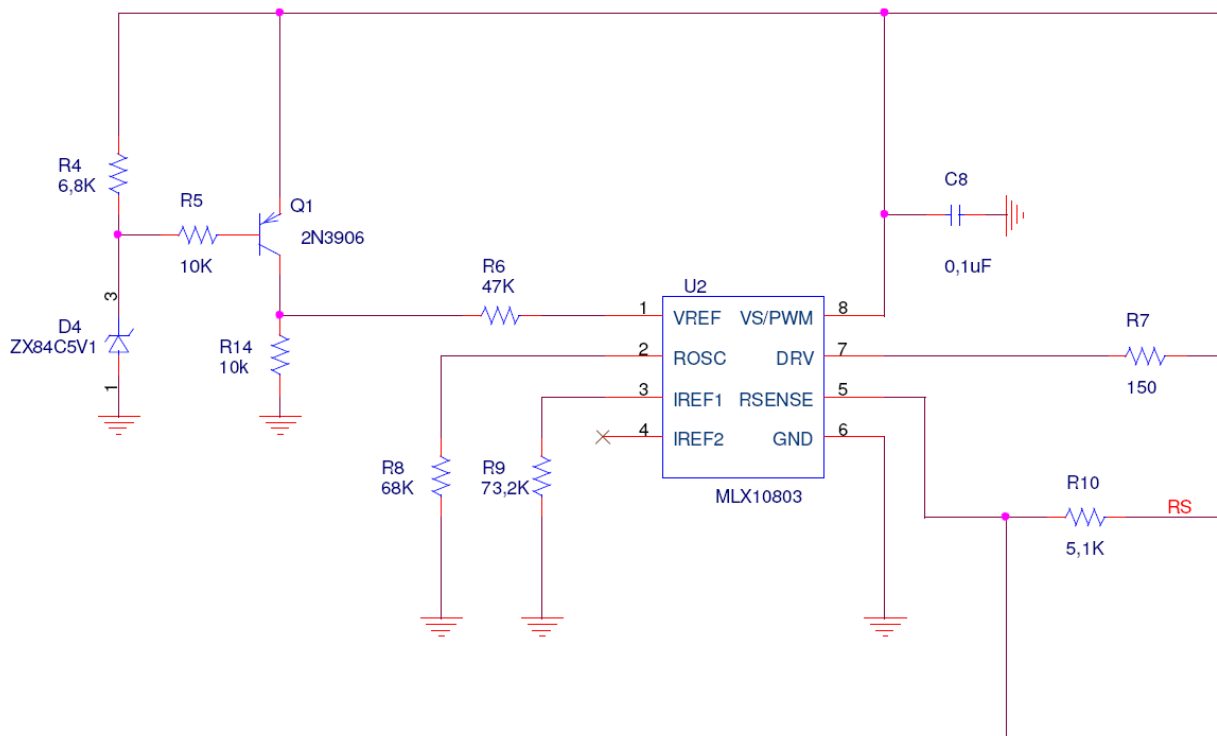## 1 Scope

The scope of this application note is to provide an undervoltage shutdown schematic.

2 Under voltage protection

The MLX10803 is specified to operate down to VS = 6V.
For lower voltages (typically starting at VS = 5.2V) the specification of the IREF current sources is not guaranteed, which can lead to a flickering behavior.
The MLX10803 goes in power down below 3V
In order to remove this flickering behavior below 6V, the below circuit shows a simple way to shut the LED-current down around 6V.

Undervoltage shutdown circuit on VREF

.