

【Customer's Circuit of TPS92640】

TYPICAL APPLICATION DIAGRAM

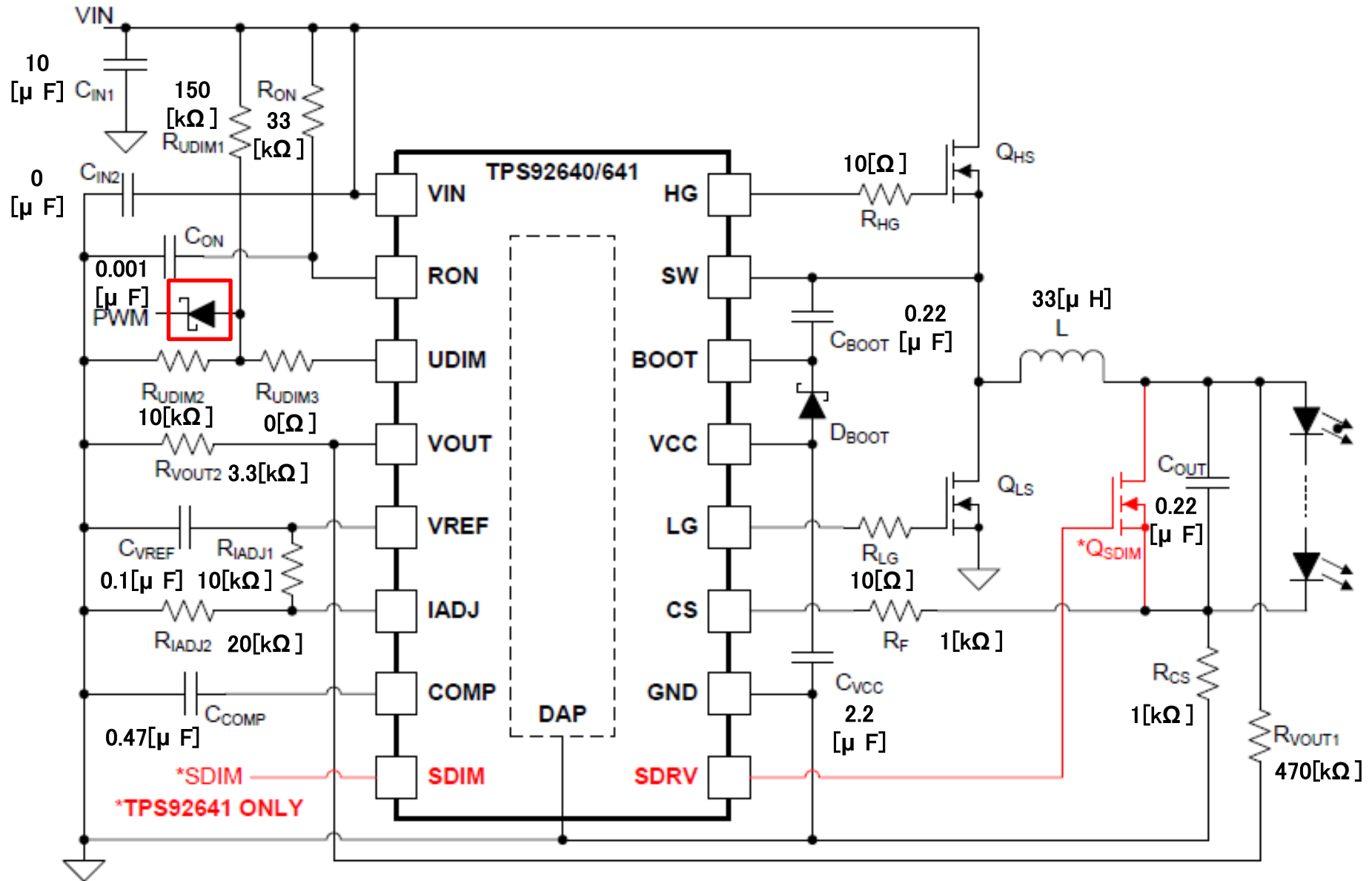


Figure 13. Synchronous Buck LED Driver

【Using L with Inductance value 33[μ H】

$V_f = 6[V]$

$I = 0.8[A]$

$t_{On} = 0.77[msec]$

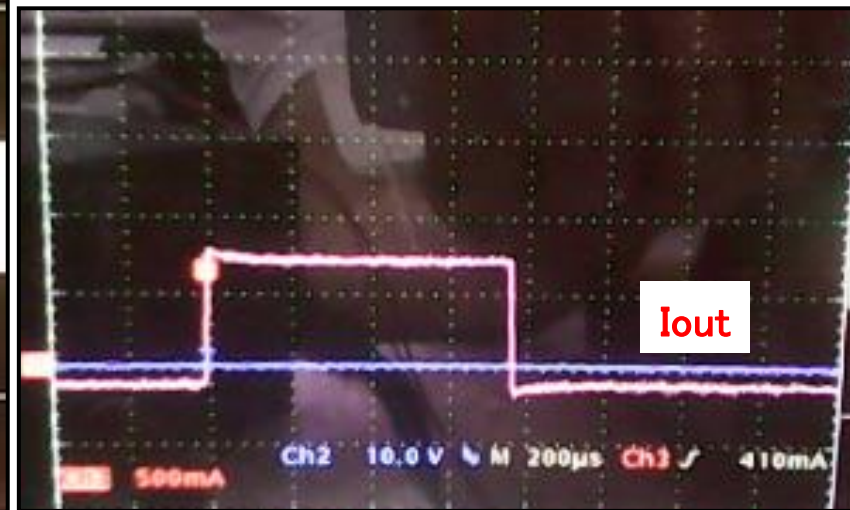
$L = 33[\mu H]$ (TDK SLF6028T330MR69-PF)

$V_{in} : 12.0[V]$



Over shoot

$V_{in} : 12.7[V]$



【Using L with Inductance value 68[uH]】

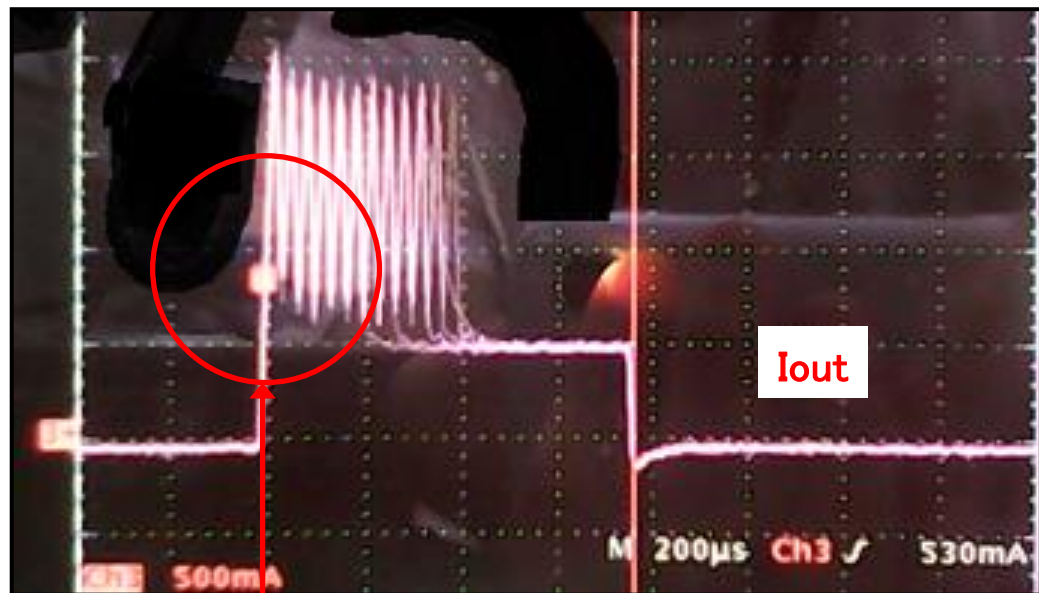
$V_f = 6[V]$

$I = 0.8[A]$

$t_{On} = 0.77[msec]$

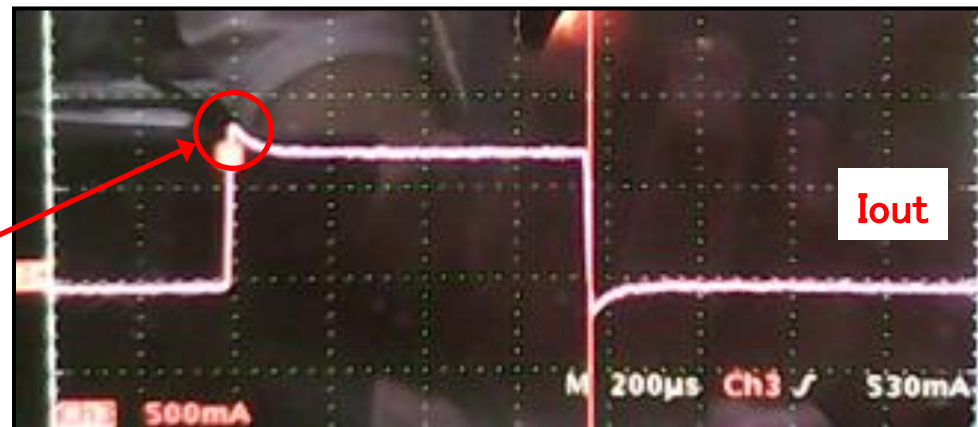
$L = 68[uH]$ (TDK SLF12565T680M2R0)

$V_{in}: 12.0[V]$



Over shoot

$V_{in}: 13.5[V]$



Over shoot