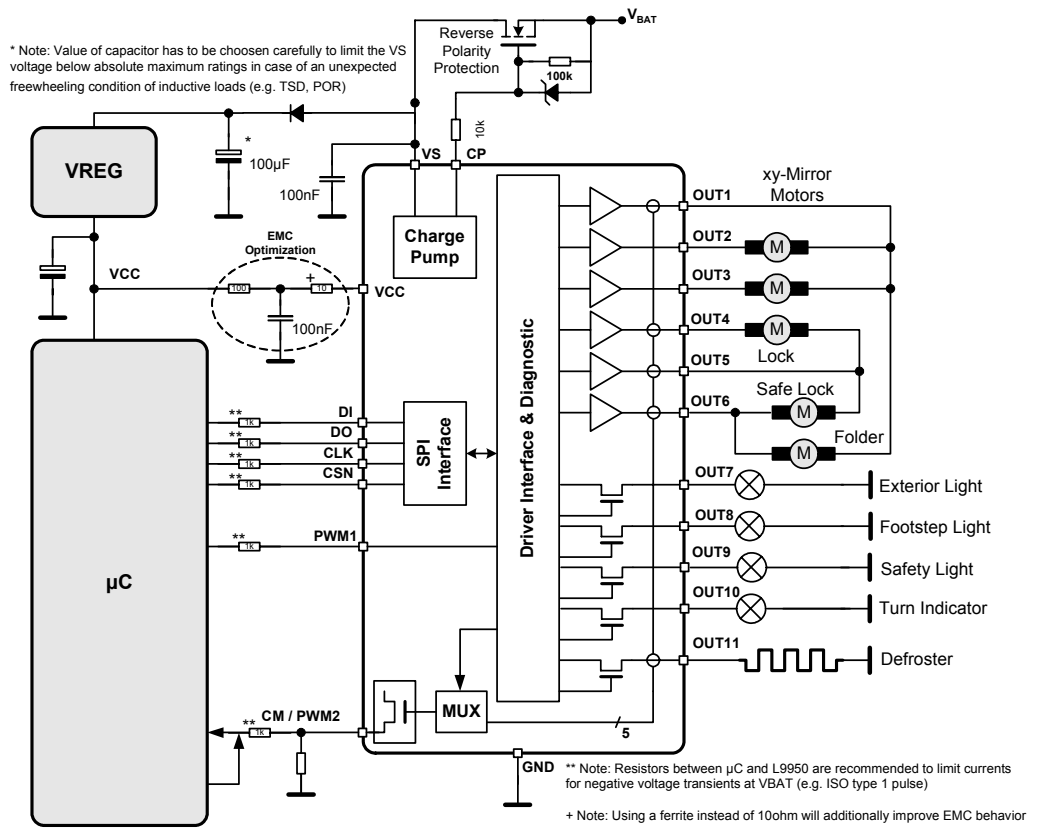
* Note: Value of capacitor has to be choosen carefully to limit the VS voltage below absolute maximum ratings in case of an unexpected freewheeling condition of inductive loads (e.g. TSD, POR)
V_{BAT}
Reverse Polarity Protection
100k
10k
VREG
*
100µF
100nF
VS
CP
Charge Pump
EMC Optimization
VCC
10Ω
1µ
100nF
µC
** 1k
DI
DO
CLK
CSN
SPI Interface
PWM1
CM / PWM2
MUX
Driver Interface & Diagnostic
5
GND
OUT1
OUT2
OUT3
OUT4
OUT5
OUT6
OUT7
OUT8
OUT9
OUT10
OUT11
xy-Mirror Motors
M
Lock
Safe Lock
Folder
Exterior Light
Footstep Light
Safety Light
Turn Indicator
Defroster
** Note: Resistors between µC and L9950 are recommended to limit currents for negative voltage transients at VBAT (e.g. ISO type 1 pulse)
+ Note: Using a ferrite instead of 10ohm will additionally improve EMC behavior