

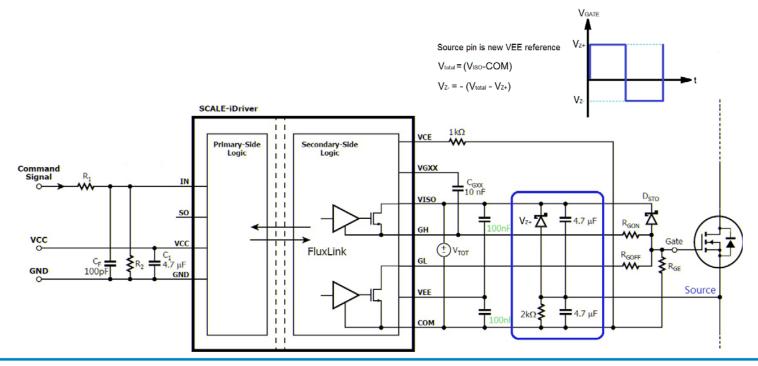


2018/04/11 Romeo

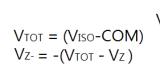
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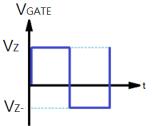
## Simple Voltage shifter Clipping with Zener diode

Deviating gate voltages of –(V<sub>TOT</sub>-V<sub>z</sub>) / +V<sub>z</sub> instead of -10V/15V



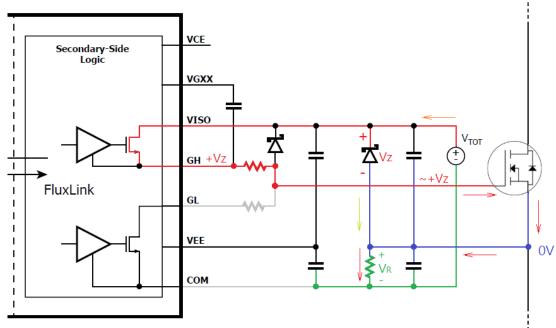
## **Positive Voltage control**



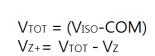


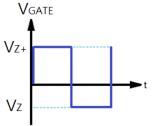
Control Positive voltage, Negative voltage is equal to -(VTOT-VZ)

VISO to Source will be clamped at Vz

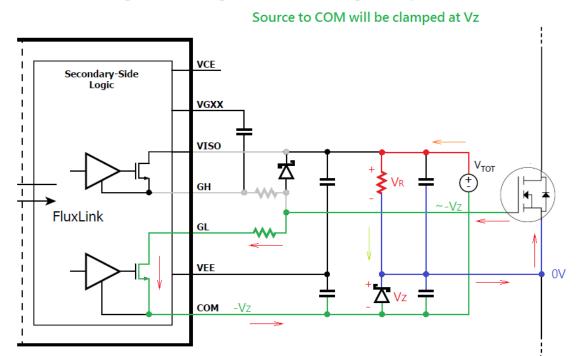


## **Negative Voltage control**





Control Negative voltage, Positive voltage is equal to VTOT-Vz



## Selection

- You only can choice One of Positive or Negative control circuit.
  - $\triangleright$  You still need to follow;  $V_{VISO-COM} = V_{VISO-VEE} + V_{VEE-COM}$
  - Otherwise, you only can choose one to be controlled, positive or negative. Two voltage controlled method working against each other