TPSM82866AA0HRDMR PSpice Transient Model Features and Limitations

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* Model Usage Notes:
* A. The following features have been modeled
*      a. 100% duty cycle operation
*      b. RON and variation with VIN
*      c. Current Limit and HICCUP
*      d. Output discharge functionality
*      e. Selectable Fixed and Adjustable output voltage configuration.
*      f. Power Save Mode or Forced PWM Mode.
*      g. Power Good and UVLO
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* B. Features have not been modeled
*      1. Operating Quiescent Current
*      2. Shutdown Current
*      3. Temperature dependent characteristics.
*      4. Ground pins have been tied to 0V internally. Therefore, this model cannot be used for inverting topologies.
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* C. Application Notes
*      1. The parameter STEADY_STATE and VOUT has been used to reach the steady state faster.
*         Keep STEADY_STATE = 0 and VOUT = output voltage value, to observe startup behaviour
*         Keep STEADY_STATE = 1 and VOUT = output voltage value, for faster Steady state.
*      2. After enabling the device (EN>1V), there is an enable delay (tDelay)= 700us before the device starts switching.
*         After tDelay output voltage ramps up the value set by external resistor R4 (at VSET/MODE pin) in 1ms.
*      3. For R4=10K or LOW and R4=249K or HIGH, Device works in Adjustable Output Voltage Configuration.
*      4. Once the device reaches steady state, VSET/MODE pin can be used to run the device in FPWM/PFM mode.
*         Keep VSET/MODE = LOW, device runs in PFM
*         Keep VSET/MODE = HIGH, device runs in FPWM
*         Connect VSET/MODE to 5.5V DC (not to VIN) to model the device in FPWM mode with an adjustable output voltage.
*               In the actual application, connect VSET/MODE to VIN.
*      5. The PG pin becomes high under the condition- 0.91 x VOUT_NOM = VVOS = 1.11x VOUT_NOM
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