TPS62840 PSPICE Model Features and Limitations

Model Usage Notes:

A. Features have been modelled

1. Peak current limit,Reduced current limit during startup.
2. Selectable Power Save / Forced PWM Mode.
3. 100% duty cycle operation.
4. Output discharge functionality.
5. Output voltage programmability.
6. Stop pin functionality is modelled.
7. Current limits of high side switch (Device operating in 100% and normal mode).
8. On Resistance of both low and high side switch.

B. Features have not been modelled

1. Temperature effects are not modelled

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C. Application Notes

1. The parameter STEADY_STATE can be used to reach the steady state faster. Keep STEADY_STATE = 0 to observe Start-up behaviour and STEADY_STATE = 1 for faster Steady state.