

TPS628501-Q1 PSPICE Transient Model Features and Limitations

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* Model Usage Notes:
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* A. Features have been modelled
* 1. Frequency foldback during soft-start
* 2. Fold-Back overcurrent protection
* 3. PGOOD functionality
* 4. MODE Pin functionality for FPWM
* 5. Sync functionality
* 6. Different COMP Settings functionality
* 7. Min On Time
* 8. UVLO functionality
* 9. Frequency selection functionality
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* B. Features have not been modelled
* 1. Operating Quiescent Current
* 2. Shutdown Current
* 3. Temperature dependent characteristics
* 4. Spread Spectrum clocking functionality is not modeled.
* 5. Current through Pins EN,MODE_SYNC,COMP_FSET,FB are not modelled.
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* C. Application Notes
* 1. The parameter STEADY_STATE has been used to reach the steady state faster.
*    Keep STEADY_STATE = 0 to observe startup behaviour.
*    Keep STEADY_STATE = 1 and appropriate IC on Inductor and capacitor to observe for faster Steady state.
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