

TPS62933 PSPICE Transient Model Features and Limitations

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* Model Usage Notes:

* A. Features have been modelled

- * 1. Output Voltage Setting
- * 2. External Adjustable Soft-start
- * 3. Adjustable UVLO
- * 4. Frequency Selection
- * 5. Low-side FET Zero-Crossing
- * 6. Current Sense and Positive Overcurrent Protection(OCP)
- * 7. Over Voltage Protection(OVP)
- * 8. Under Voltage Protection(UVP)
- * 9. UVLO Protection
- * 10. BOOT functionality

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* B. Features have not been modelled

- * 1. Operating Quiescent Current
- * 2. Shutdown Current
- * 3. Temperature dependent characteristics

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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.
- * 2. The parameter EN_FSS has been used to Enable/Disable FSS behaviour.
Keep EN_FSS = 0 to disable Frequency Spread Spectrum
Keep EN_FSS = 1 to observe Frequency Spread Spectrum after 1.5*Tss.

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