

TPS626751 PSpice Transient Model Features and Limitations

Model Usage Notes:

A. Features have been modeled

1. Switching Characteristics
2. Current limits (Maximum valley and peak, minimum peak and negative current limit)
3. Under voltage protection

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.

C. Application Notes

1. Mode pin has been used to run the device in different mode of operation.

MODE = LOW: The device is operating in regulated frequency pulse width modulation mode (PWM) at high load currents and in pulse frequency modulation mode (PFM) at light load currents.

MODE = HIGH: regulated frequency PWM operation forced (FPWM).