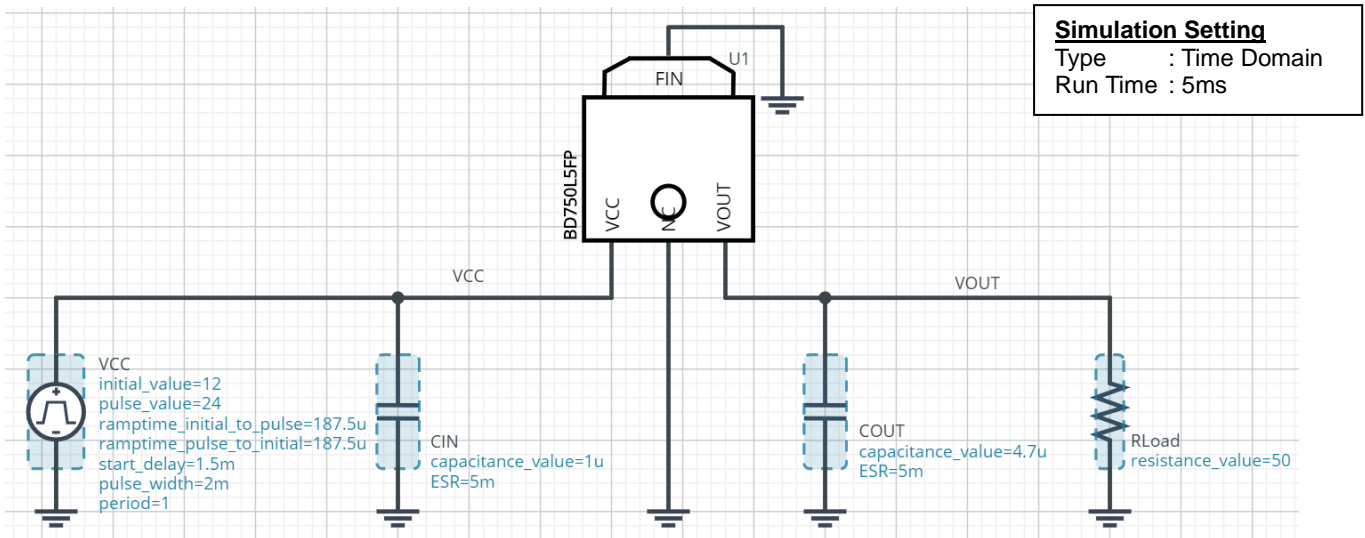


Ultra Low Quiescent Current LDO Regulator BD750L5FP / Line Response

This Circuit simulates the Line Response.
You can check the fluctuation of the output voltage when the input voltage is abruptly changed.

Simulation Schematic



Peripheral Components

Instance Name	Type	Parameter	Default Value	Variable Range		Unit
				Min	Max	
CIN	Capacitor	capacitance_value	1	0.1	no constraint ^(Note 1)	μF
		ESR	5	1	10000	mΩ
COUT	Capacitor	capacitance_value	4.7	4.7	no constraint ^(Note 1)	μF
		ESR	5	1	10000	mΩ

Simulation Conditions

Instance Name	Type	Parameter	Default Value	Variable Range		Unit
				Min	Max	
VCC	Voltage Source	initial_value	12	5.6	45	V
		pulse_value	24	5.6	45	V
		ramptime_initial_to_pulse	187.5	no constraint ^(Note 1)		μs
		ramptime_pulse_to_initial	187.5	no constraint ^(Note 1)		μs
		start_delay	1.5	no constraint ^(Note 1)		ms
		pulse_width	2	no constraint ^(Note 1)		ms
		period	1	no constraint ^(Note 1)		s
Rload	Resistor	resistance_value	50	10	100M	Ω

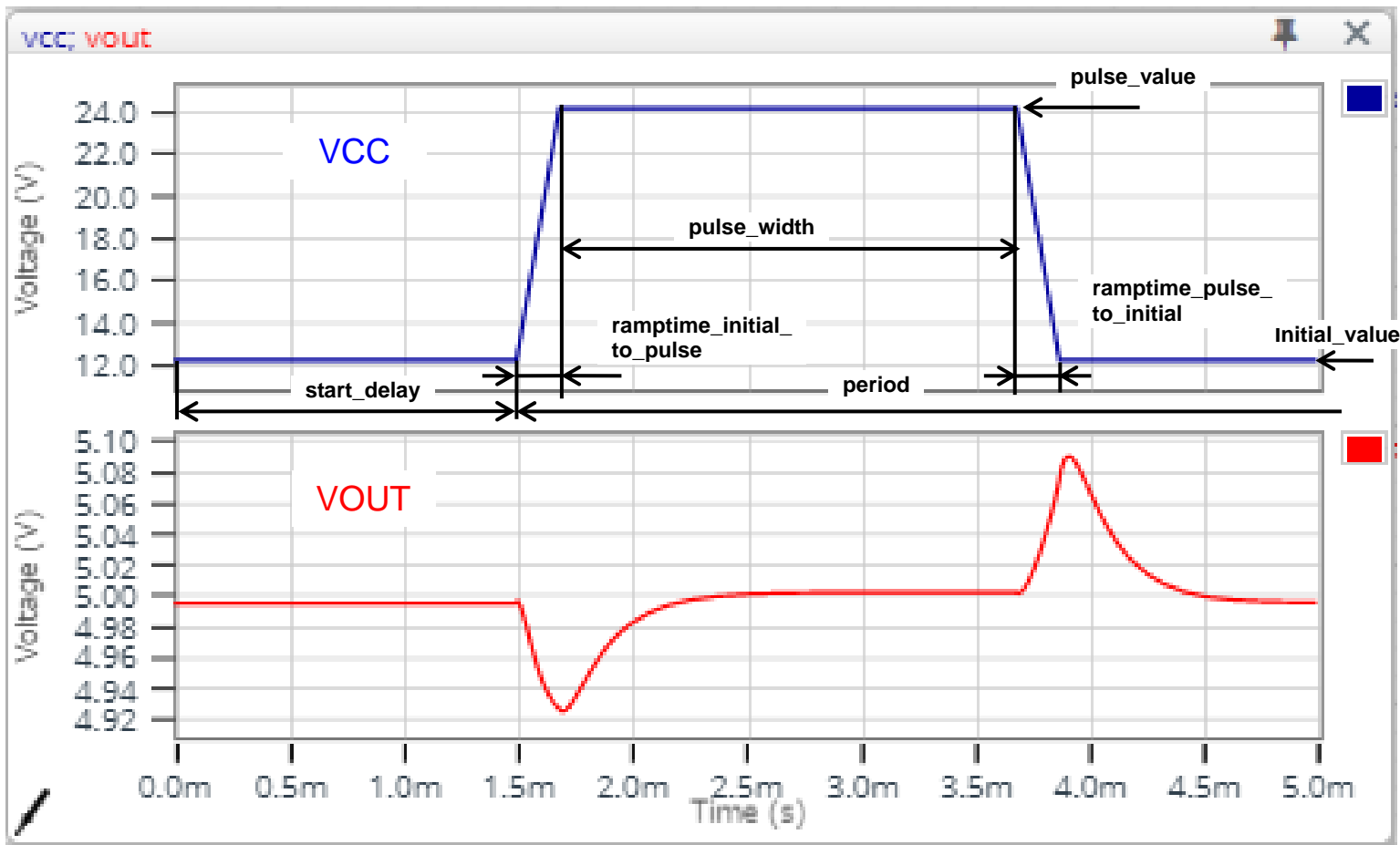
(Note 1) This is a constraint of the simulation settings and does not guarantee the operation of the IC.

Caution 1: The values from the simulation results are not guaranteed. Please use these results as a guide for your design.

Caution 2: These model characteristics are specifically at Ta=25°C. Thus, the simulation result with temperature variances may significantly differ from the result with the one done at actual application board (actual measurement).

Caution 3: Please refer to the datasheet for details of the technical information

Simulation Result



Notes

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