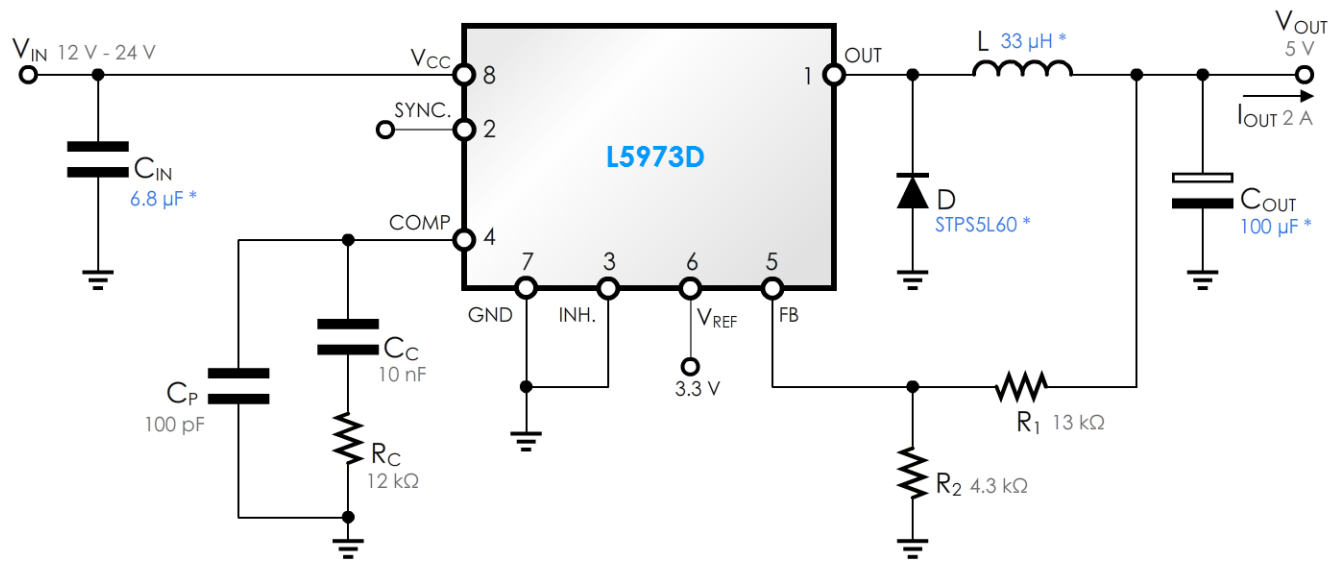


V_{in}: 12 V - 24 V **V_{out}:** 5 V **I_{out}:** 2 A

Switch Frequency: 250 kHz

IC: L5973D - HSOP 8

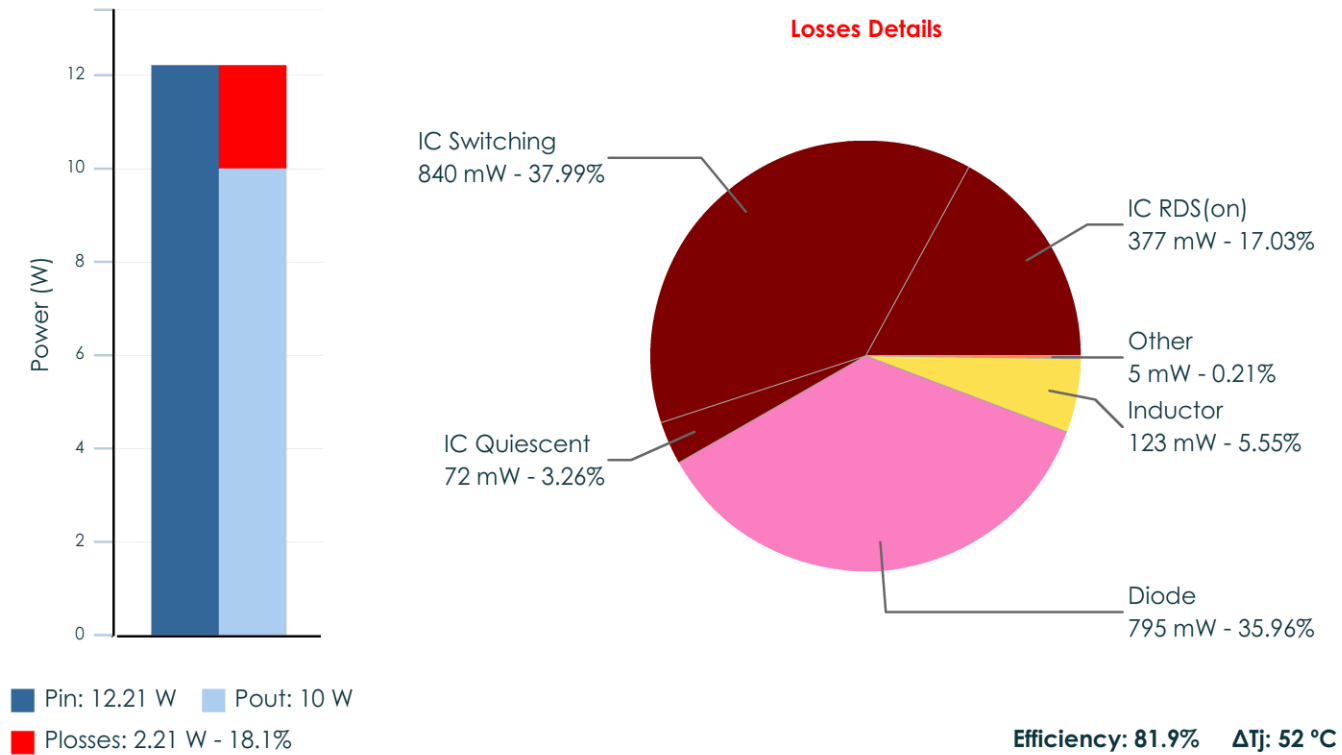
System Operating Condition: **V_{in}:** 24 V - **I_{out}:** 2 A - **T_a:** 25 °C



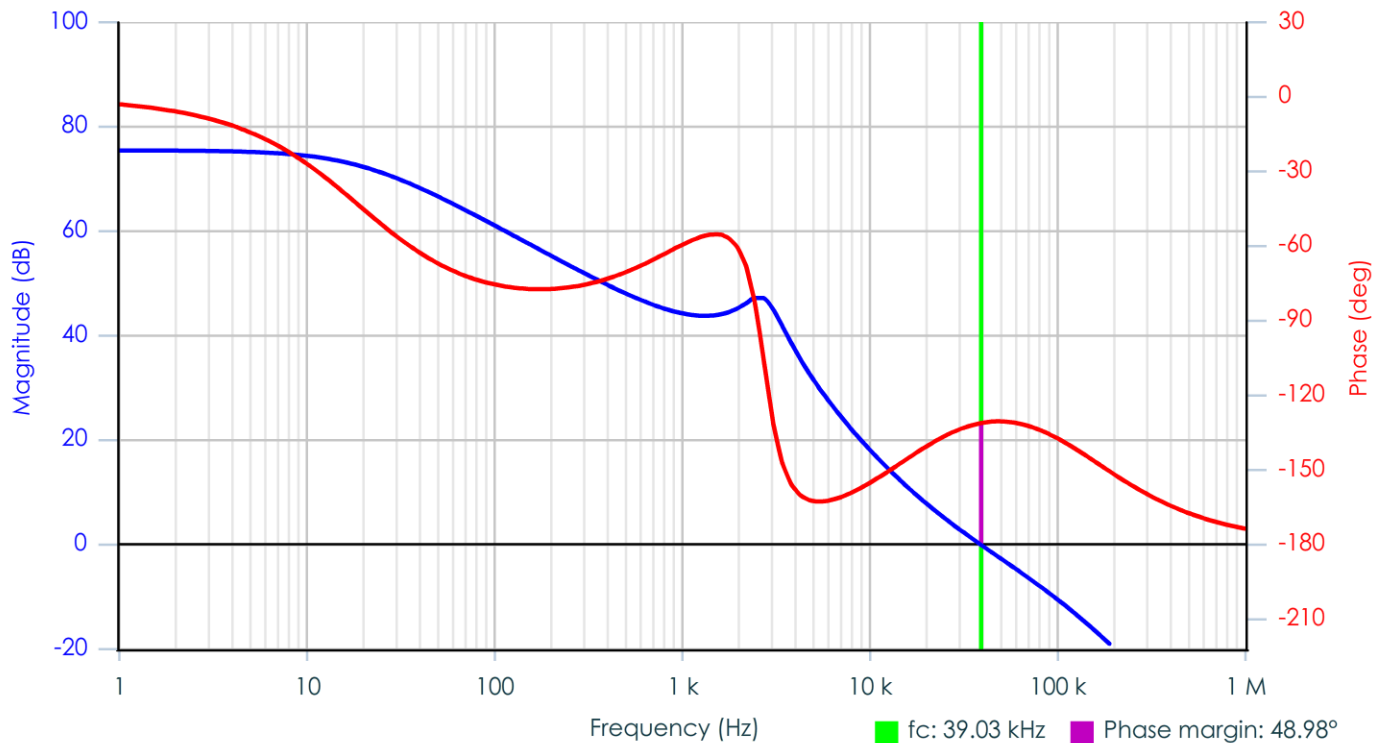
Bill of Materials

Type	Reference	Value	Description
IC	IC	L5973D	L5973D - HSOP 8
Capacitor	C _{in}	6.8 µF	50 V - 20% - TDK - C4532X5R1H685M
Capacitor	C _{out}	100 µF	6.3 V - 20% - AVX - TPSC107M006R0150
Inductor	L	33 µH	5.5 A - Wurth Elektronik - 7443551331
Diode	D	STPS5L60	5 A, 60 V - STMicroelectronics
Resistor	R ₁	13 kΩ	13 kΩ
Resistor	R ₂	4.3 kΩ	4.3 kΩ
Capacitor	C _c	10 nF	10 nF
Resistor	R _c	12 kΩ	12 kΩ
Capacitor	C _p	100 pF	100 pF

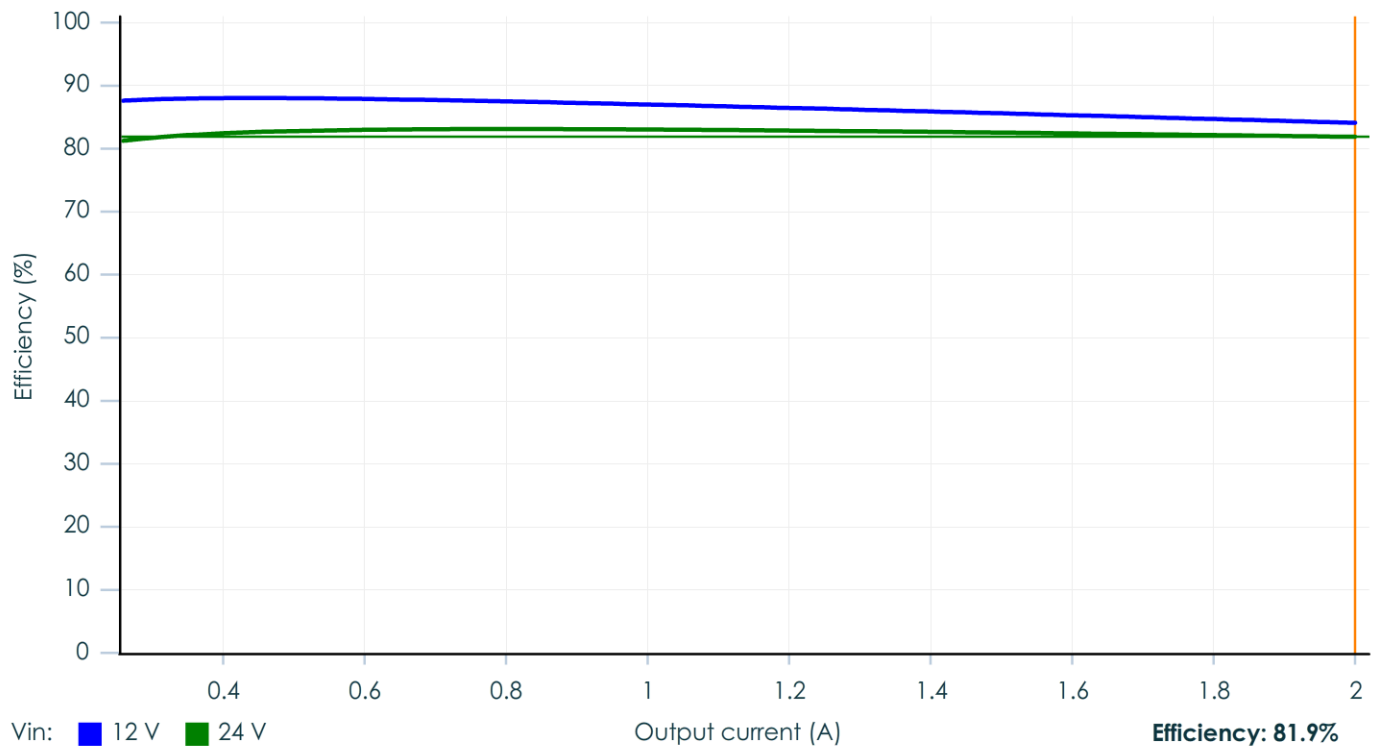
Power Losses



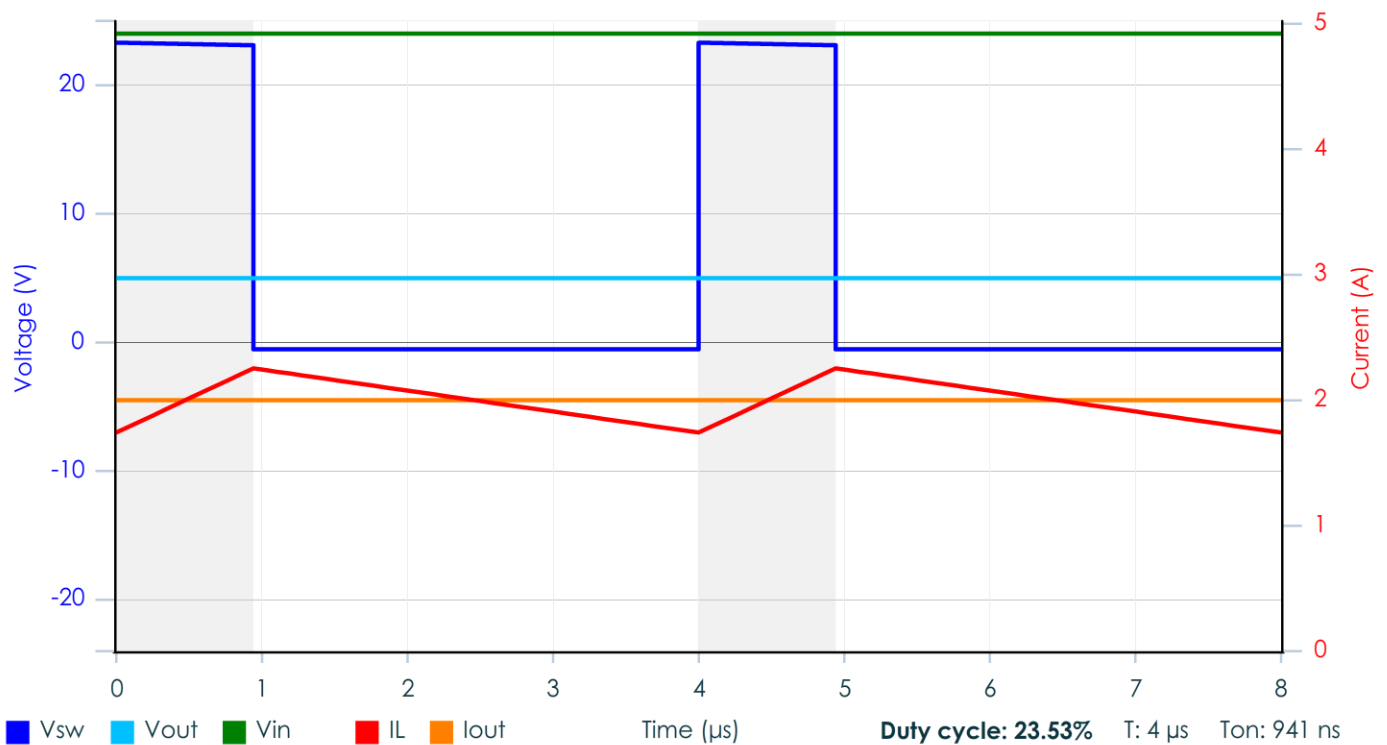
Bode



Efficiency



Simulation



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