

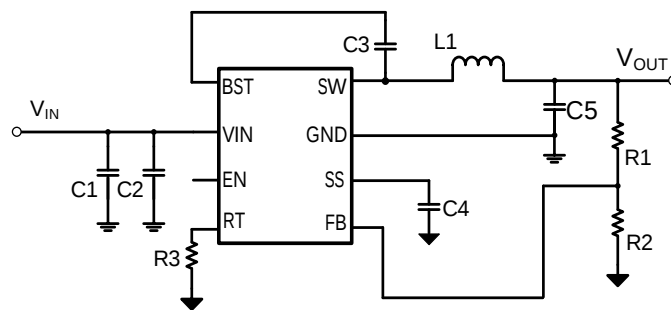
3.8V-30V Vin, 3A, High Efficiency Synchronous Step-down DCDC Converter

FEATURES

DESCRIPTION

APPLICATIONS

TYPICAL APPLICATION



3.8V-30V, Synchronous Buck Converter
Simplified schematic diagram

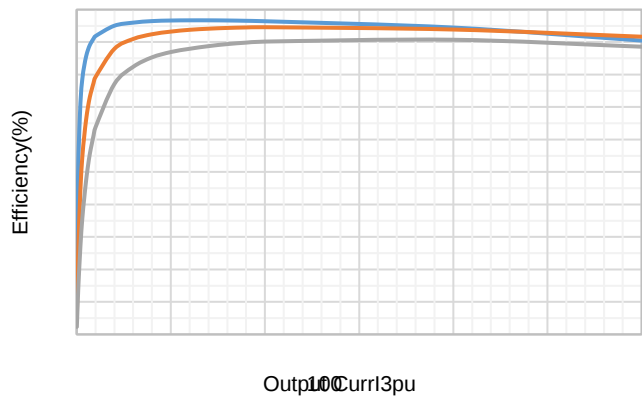
RECOMMENDED OPERATING CONDITIONS

ESD RATINGS

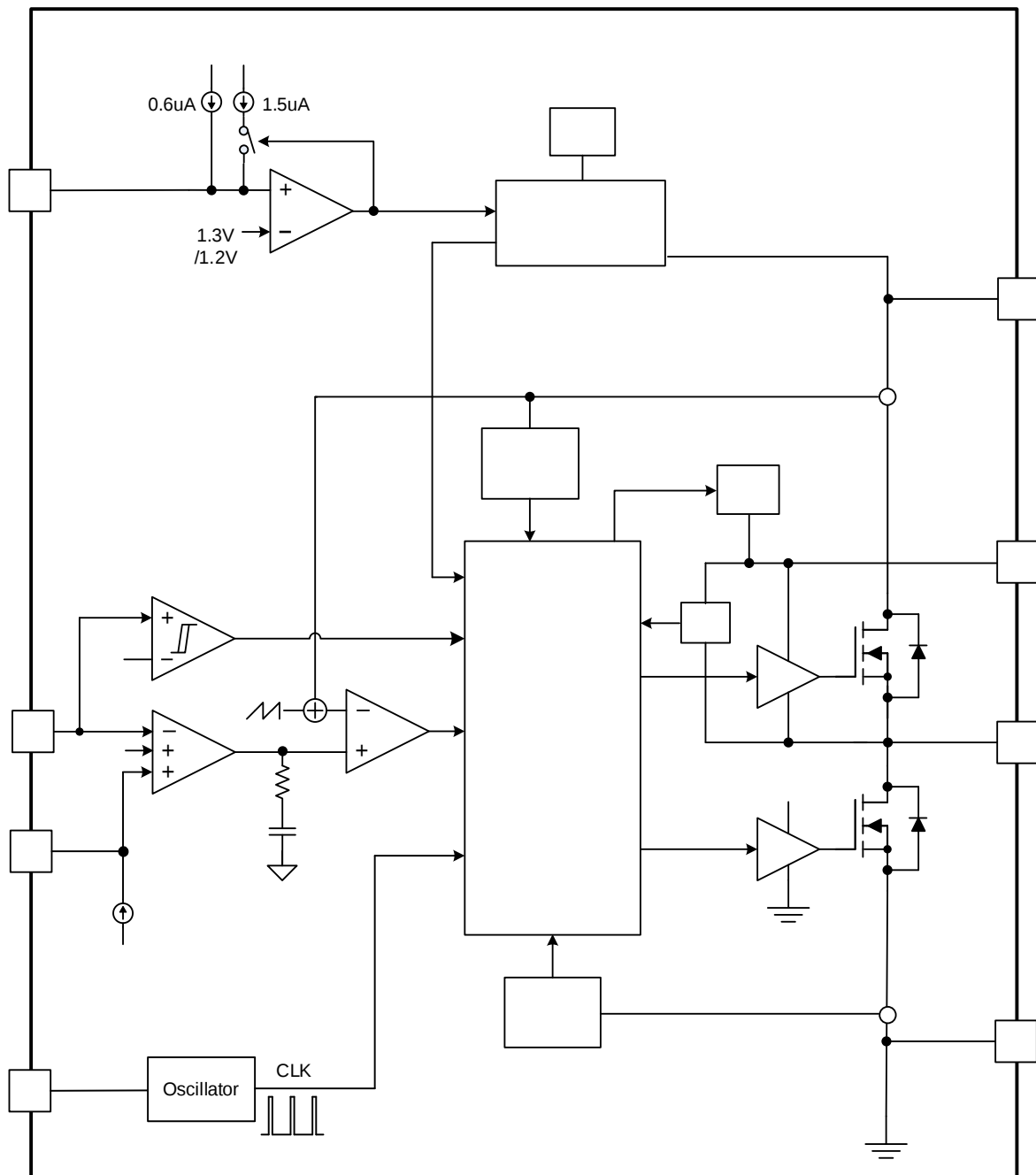
(1)
(2)

THERMAL INFORMATION

TYPICAL CHARACTERISTICS

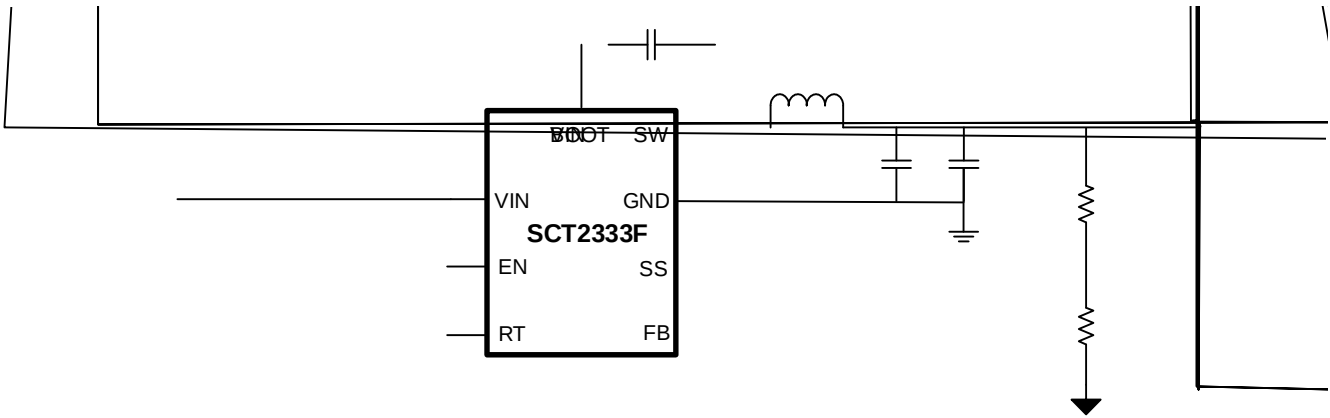


FUNCTIONAL BLOCK DIAGRAM



OPERATION

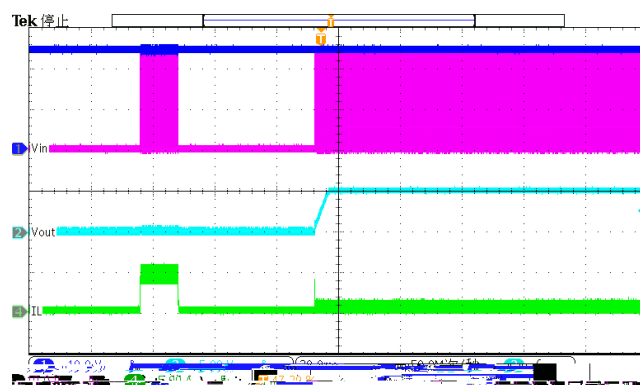
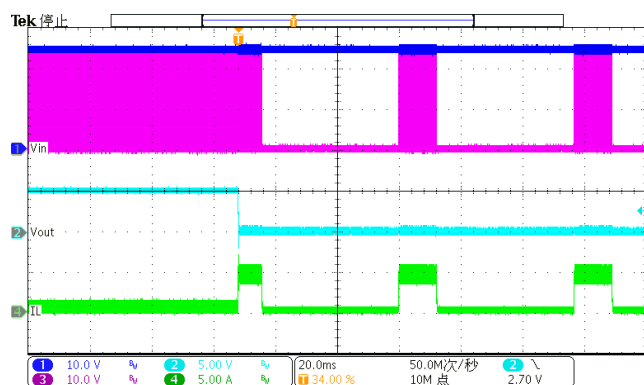
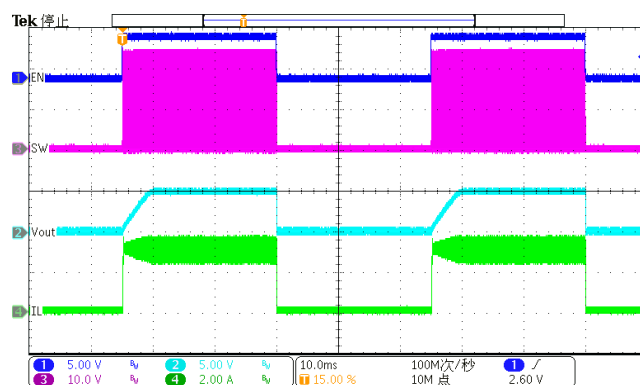
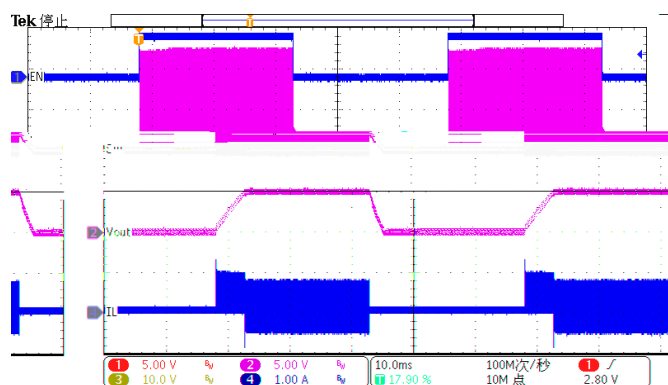
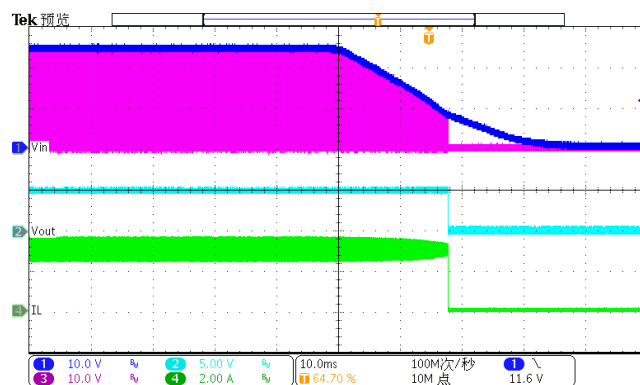
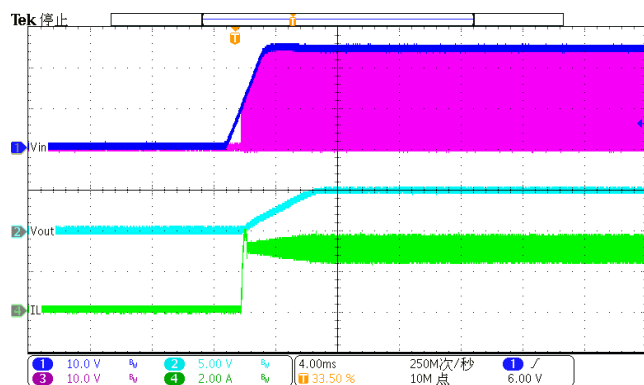
APPLICATION INFORMATION

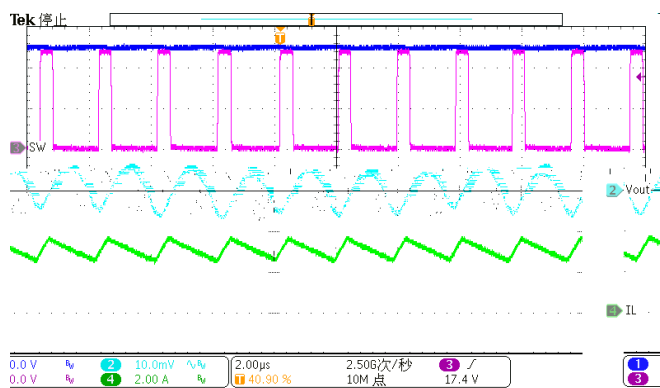
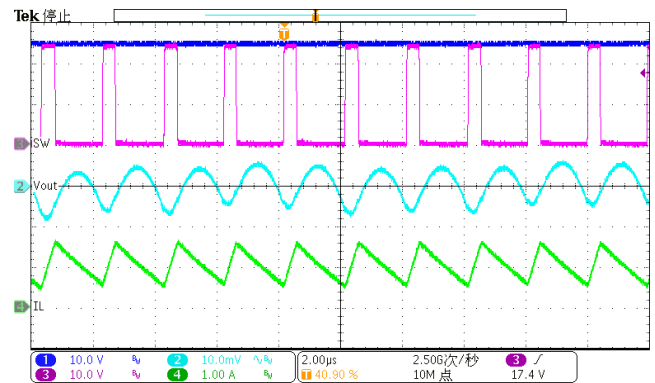
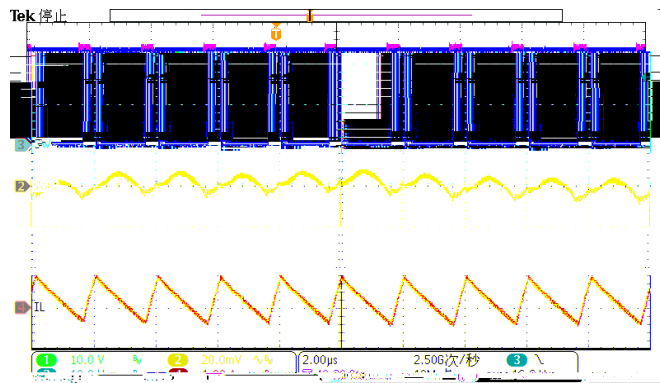
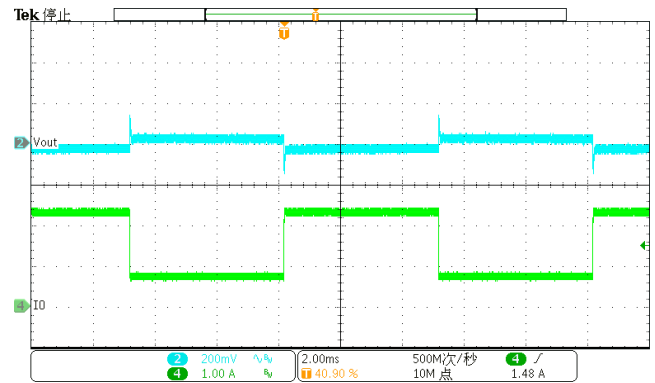
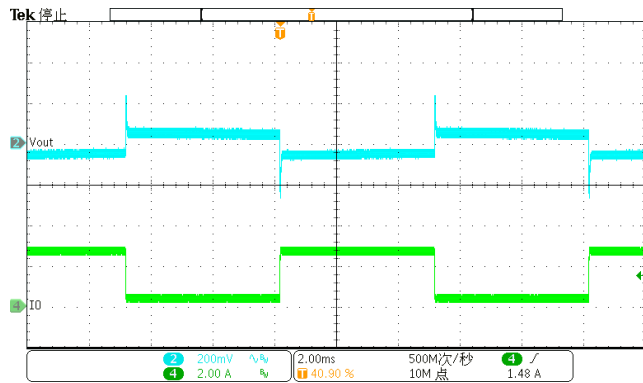


VIN

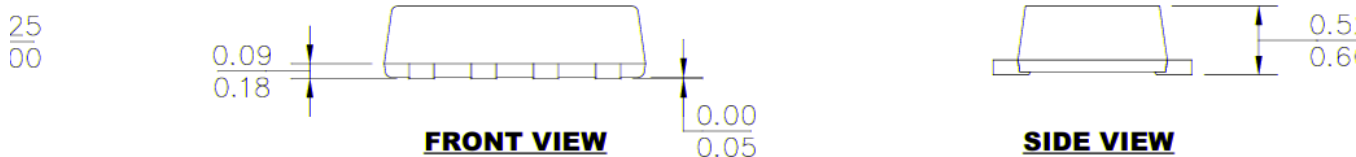
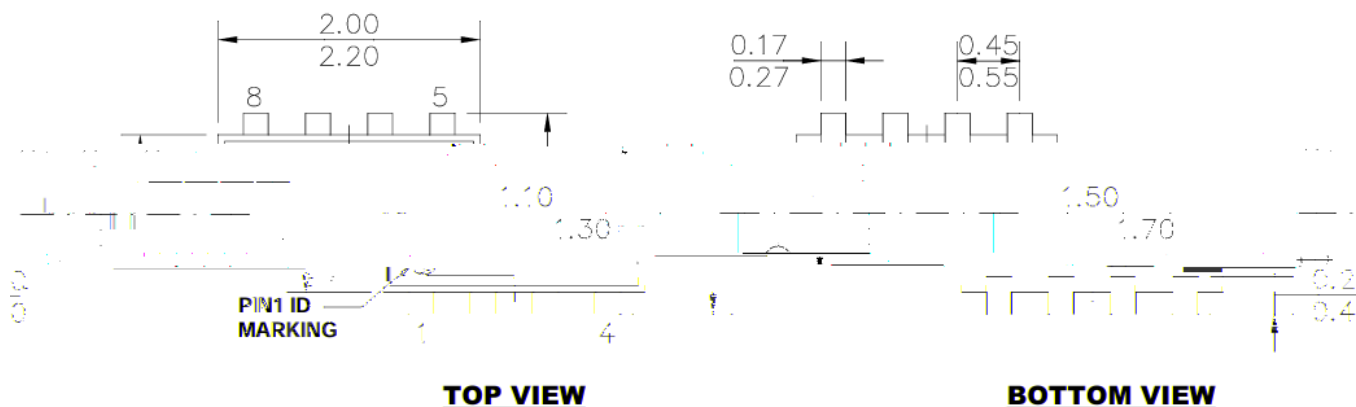
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VOUT	FREQUENCY	R1	R2	R _{RT}	L1		COUT
5V	500kHz	53.6 kΩ	10.2 kΩ	Floating	6.8 uH	Optional	44uF
12V	500kHz	143 kΩ	10.2 kΩ	Floating	15 uH	Optional	44uF
5V	1.15M						





PACKAGE INFORMATION



NOTE:

1) ALL DIMENSIONS ARE IN MILLIMETERS.

2) PACKAGE LENGTH DOES NOT INCLUDE

3) D FLASH PROTRUSION OR GATE BURR.

4) PACKAGE WIDTH DOES NOT INCLUDE

5) LEAD FLASH OR PROTRUSION.

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RN

RECOMMENDED LAND PATTERN

Technical drawing of a mechanical part, likely a wheel or flange, showing three views: a front view, a side view, and a cross-sectional view.

Front View (Top Left): Shows a circular part with a central hub and six radial spokes. Dimensions include an outer diameter of $\Phi 180_{-3}^{0}$, a central hole diameter of $\Phi 13.00 \pm 0.20$, and a spoke thickness of 2.30 ± 0.10 . The spokes are spaced at 120° intervals. A fillet radius $R1.5$ is indicated at the base of the spokes.

Side View (Top Right): Shows the profile of the part. Dimensions include a total width of 13.1 ± 1.3 , a central hole diameter of $\Phi 180_{-3}^{0}$, and a central hole depth of 9.5 ± 0.2 . The side view also shows a fillet radius $R1.5$ at the base of the spokes.

Cross-sectional View (Bottom): Shows the internal structure of the part. Dimensions include a central hole diameter of $\Phi 13.00 \pm 0.20$, a flange thickness of 2.30 ± 0.10 , and a spoke thickness of 2.30 ± 0.10 . The spokes are spaced at 120° intervals. A fillet radius $R1.5$ is indicated at the base of the spokes.

SCALE 2:1

A
SCALE 2: 1

