

REVISION HISTORY

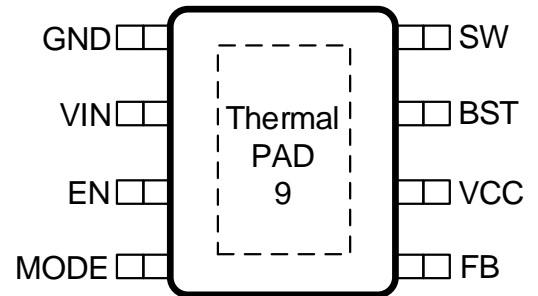
DEVICE ORDER INFORMATION

ABSOLUTE MAXIMUM RATINGS

(1)

(2)

PIN CONFIGURATION



PIN FUNCTIONS

		a) b) c)
		a) Connect the pin to VCC by a resistor will force the device in Forced Pulse Width Modulation (FPWM mode). b) c)

		X O S S Y P R O S O X V M W K K Y R O K Y P O O X V P O N L K M O S Y N S S O P Y W R O Y Y 1 8 . O R O Y Y K O R O N O S O O K O , Y K O Y R O S O X V P O X M K V O Y P c S K V

RECOMMENDED OPERATING CONDITIONS

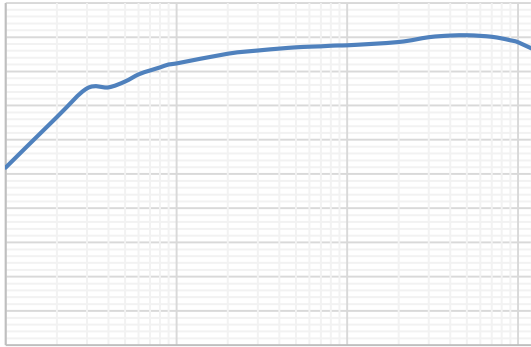
ESD RATINGS

- (1)
- (2)

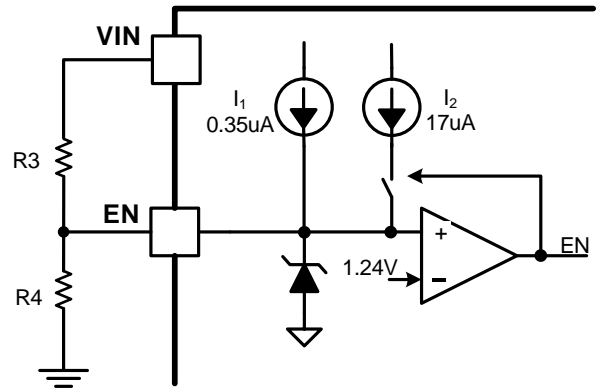
THERMAL INFORMATION

- (1)

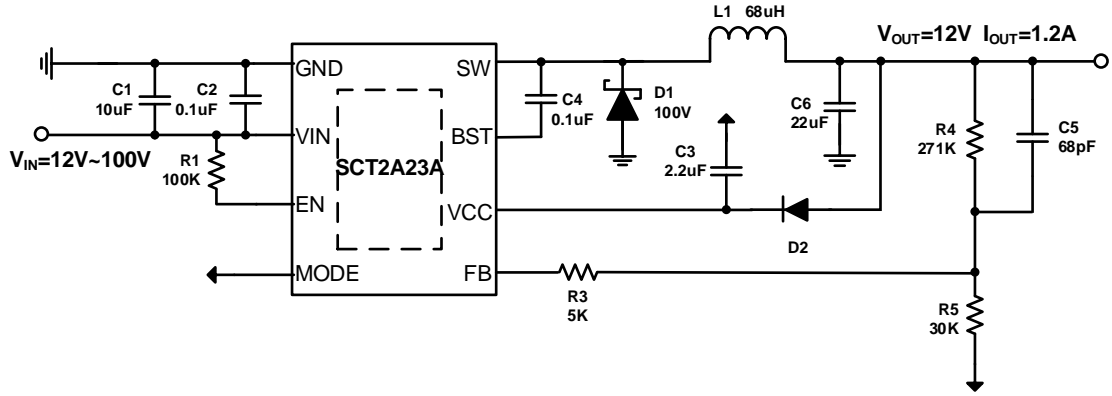
TYPICAL CHARACTERISTICS



OPERATION



2



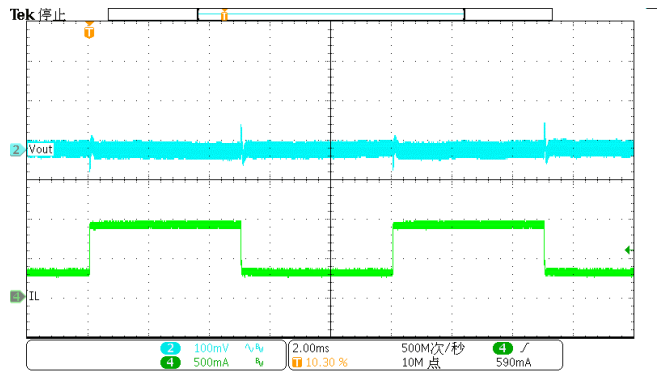
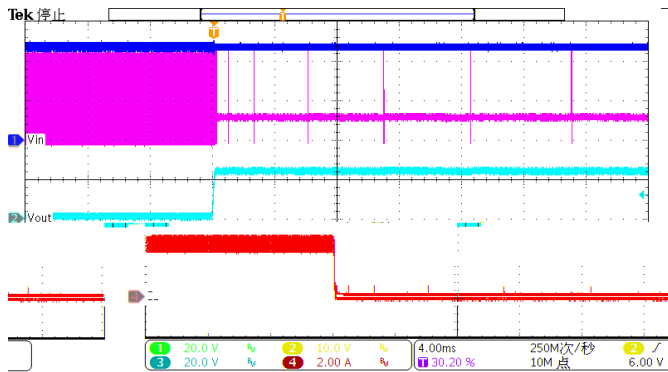
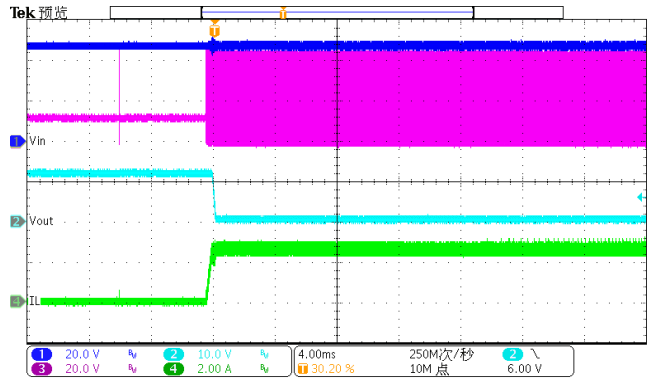
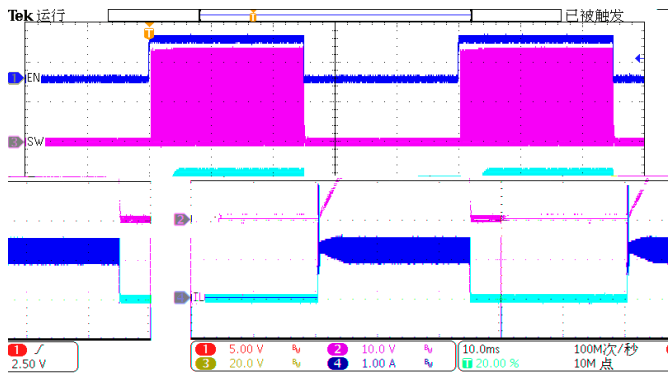
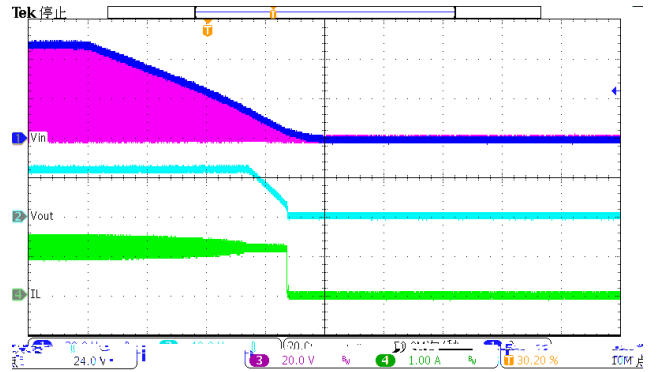
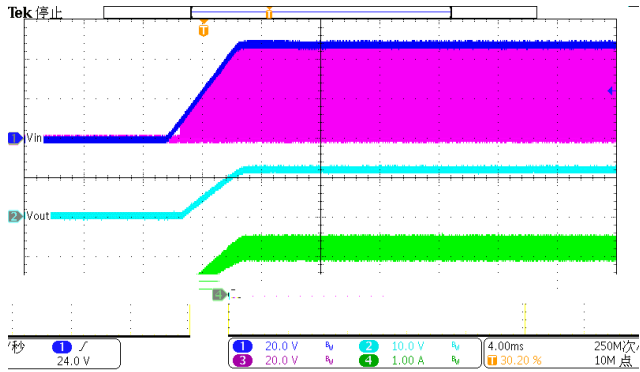


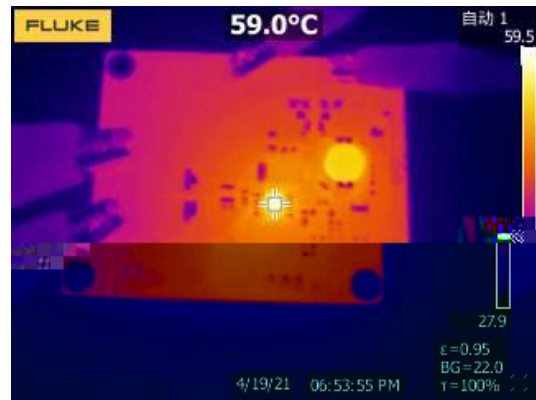
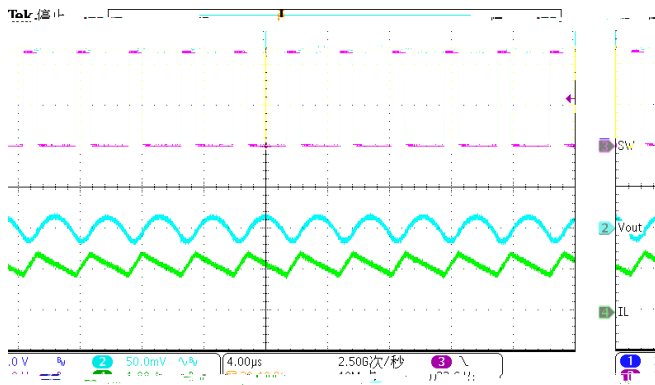
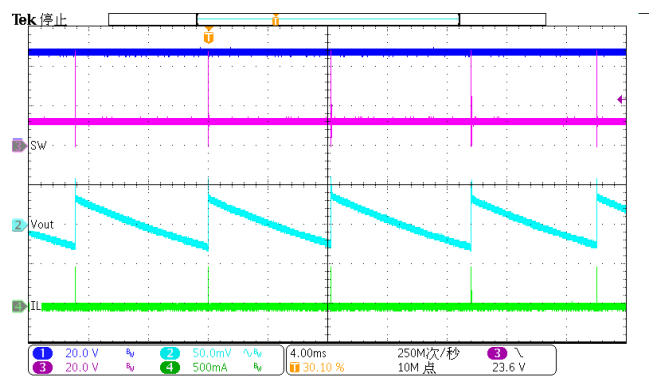
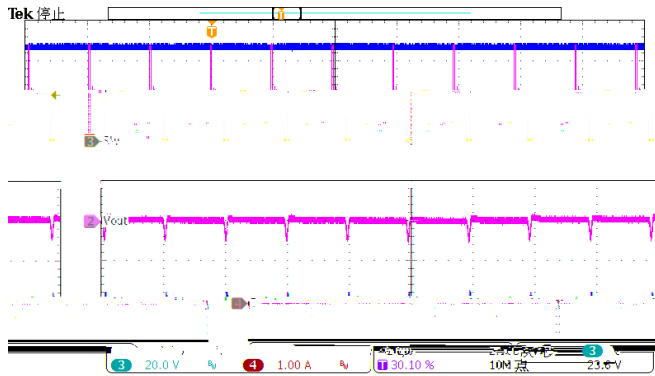
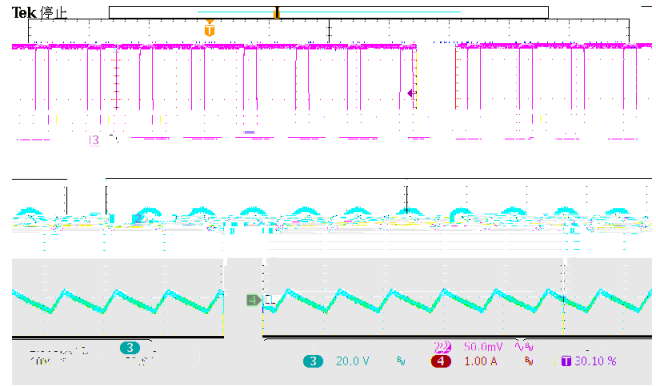
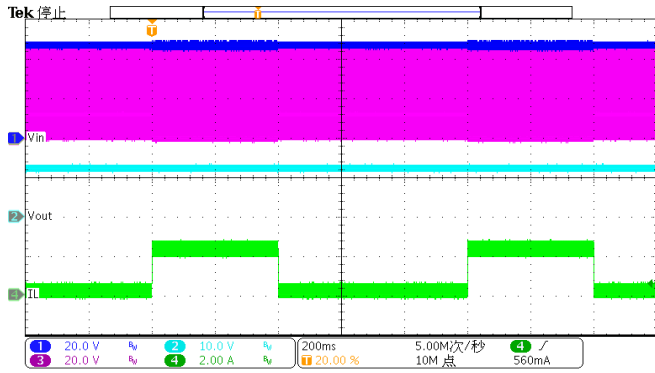
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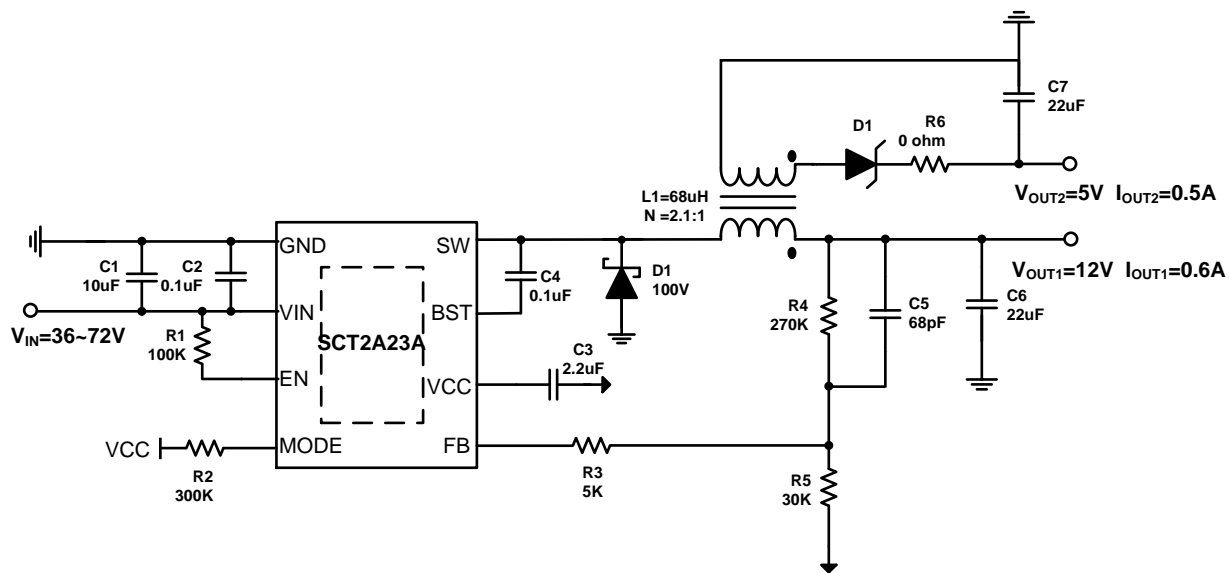




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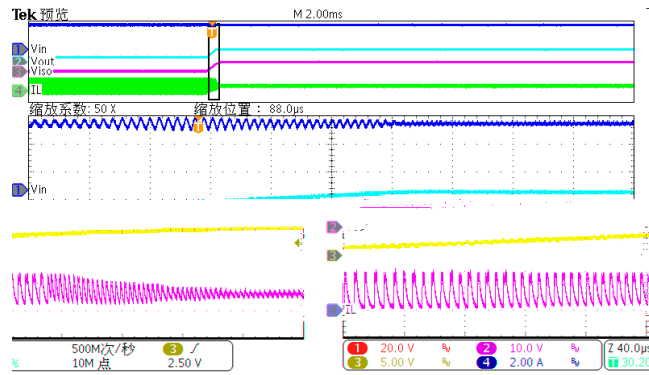
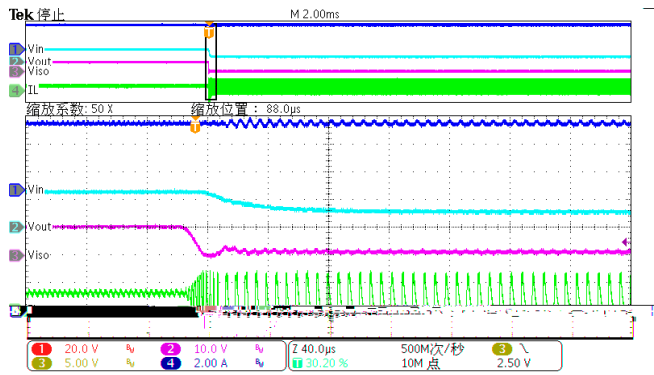
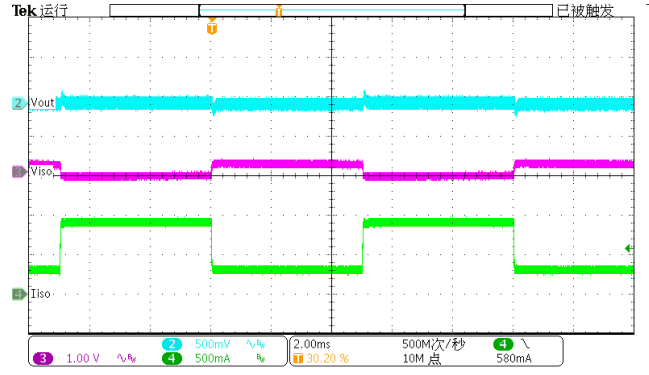
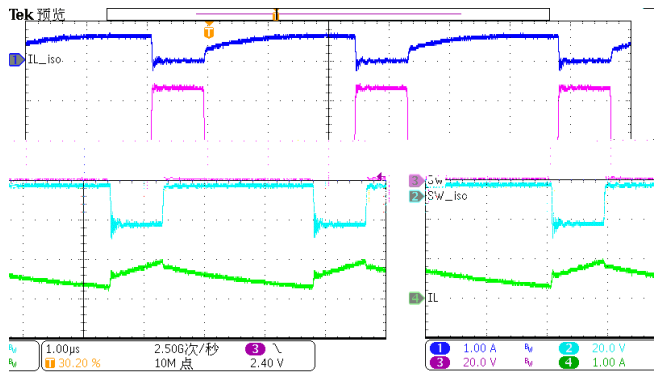
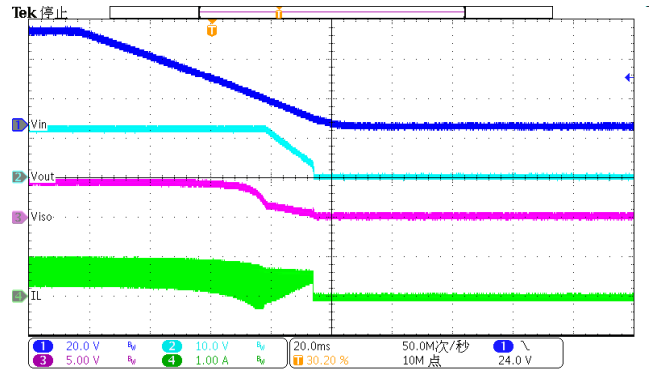
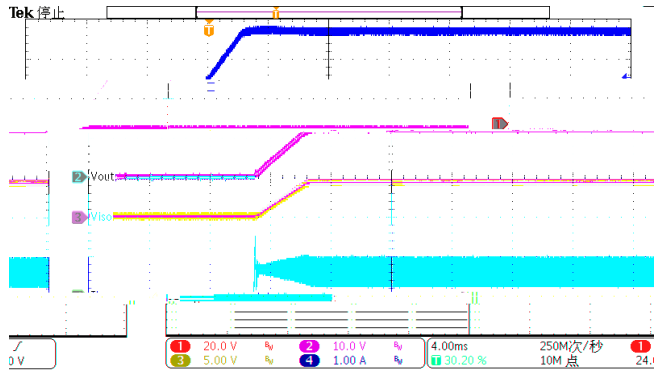


The primary output voltage in a Iso-Buck converter should be no more than one half of the minimum input voltage. For example, at the minimum V_{IN} of 36 V, the primary output voltage (V_{OUT1}) should be no higher than 18V. The isolated output voltage V_{OUT2} is set by selecting a transformer with a turns ratio ($N_1:N_2 = N_{PRI}:N_{SEC}$). Using this turns ratio, the required primary output voltage V_{OUT1} is calculated by the following equation:

The 0.7 V (V_{d1}) represents the forward voltage drop of the secondary rectifier diode. By setting the primary output voltage V_{OUT1} by selecting the correct feedback resistors, the secondary voltage is regulated at V_{OUT2} nominally. Adjustment of the primary side V_{OUT1} may be required to compensate for voltage errors due to the leakage inductance of the transformer, the resistance of the transformer windings, the diode drop in the power path on the secondary side.

The secondary side rectifier diode must block the maximum input voltage reflected at secondary side switch node. The minimum diode reverse voltage V_{RD1} rating is given below

A diode with higher reverse voltage rating must be selected in this application. If the input voltage (V_{IN}) has transients above the normal operating maximum input voltage, then the worst-case transient input voltage must be used in calculation while selecting the secondary side rectifier diode.



1.

2.

3.

4. ROLY YW KcO S K K O Y XN KXOMYXXCMCN Y RO Y XN KXOYX Y KcO Lc \$

YMOON Y ROLYKNPY WOVKXSKV OX RKXN OVLSc SK W VSØ ROWKV \$
XNOXCKR RO ROWKV KN W Y O YMO SK ROWKV KN Y Y XN KOYX , a SMK O RSRO SK SK
KNY O RYY LO \$IO NYaX KNSK ROWKV OPY WKXND S OMVWVOXNON WSN\$WOO N \$RYØ YP ROWKV
\$ L K WKØ \$YPO Ø S YP YMO YVWOY XK \$K SX aROO YMO YVWOY R RO \$
S YPMXMX V SK Y OXSK MXLO CN YKMRØ OK O CKLØ YMD

5.
