



## REVISION HISTORY

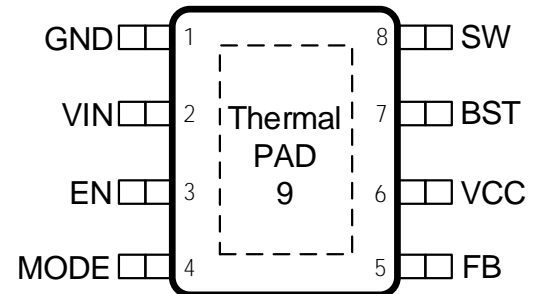
## DEVICE ORDER INFORMATION


## 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)


**RECOMMENDED OPERATING CONDITIONS**


**ESD RATINGS**


(1)  
(2)

**THERMAL INFORMATION**

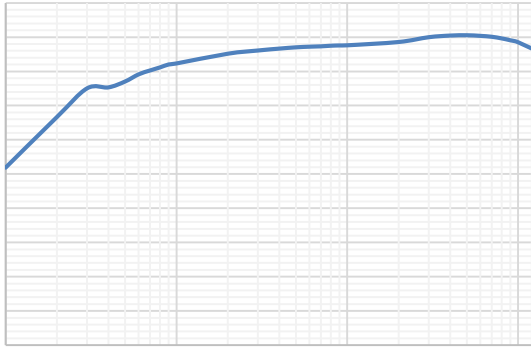

(1)



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## TYPICAL CHARACTERISTICS

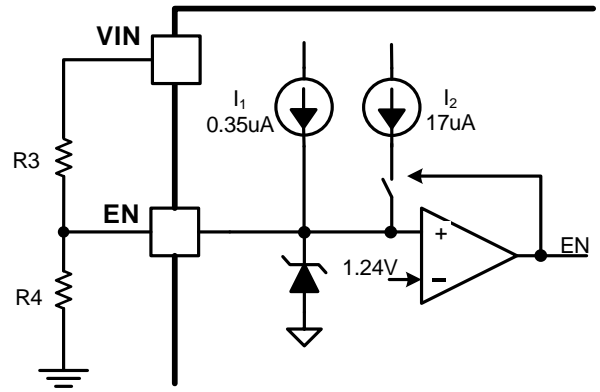




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## OPERATION

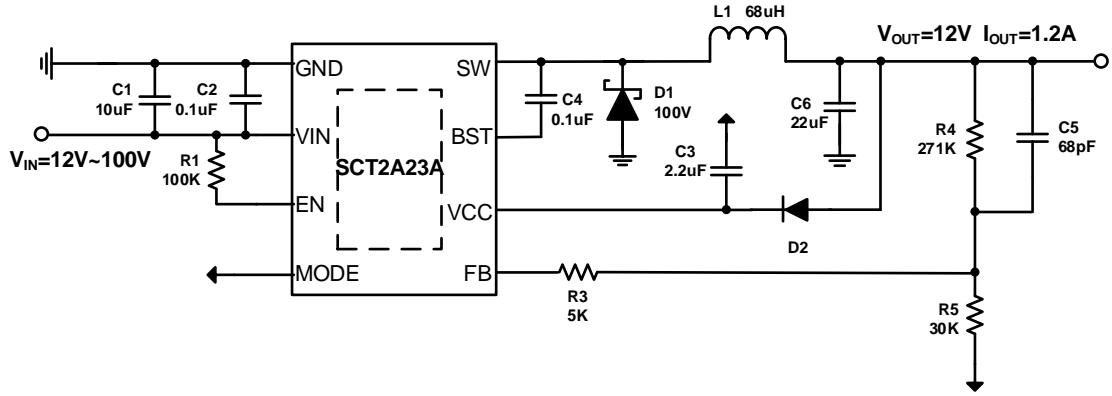




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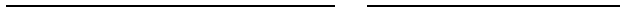
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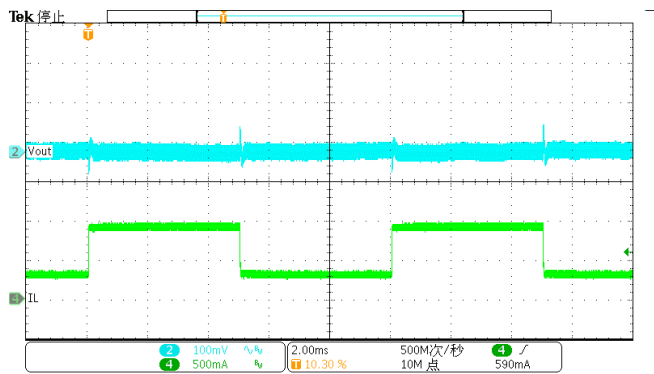
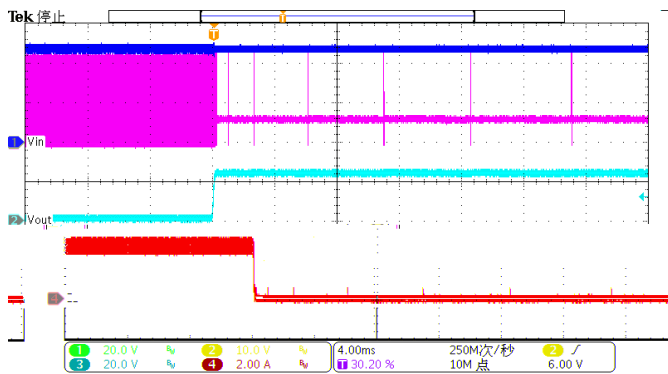
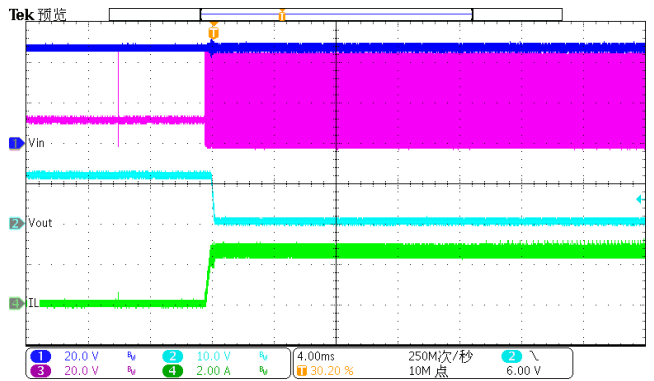
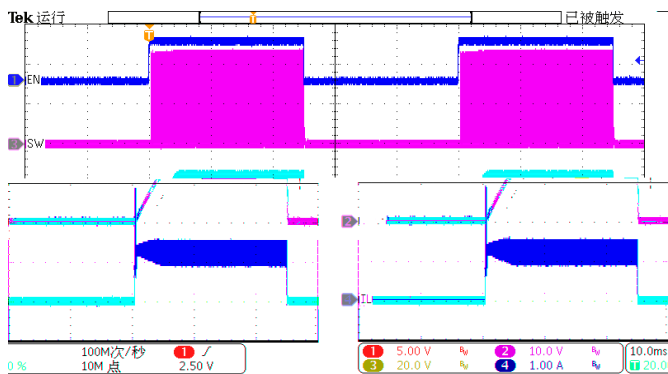
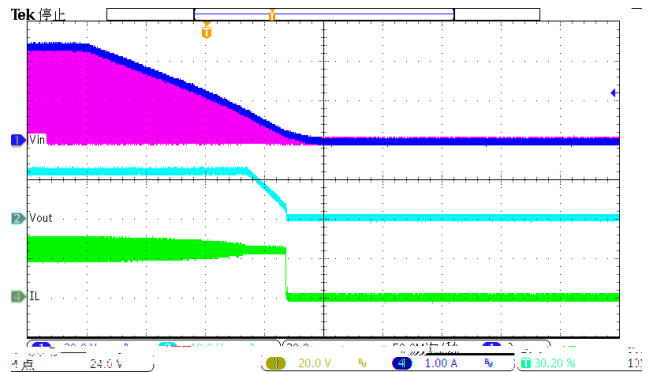
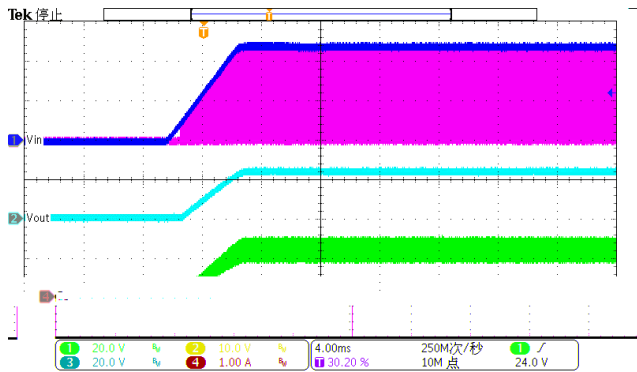
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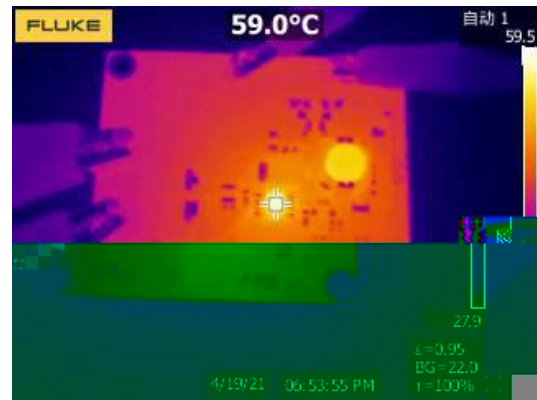
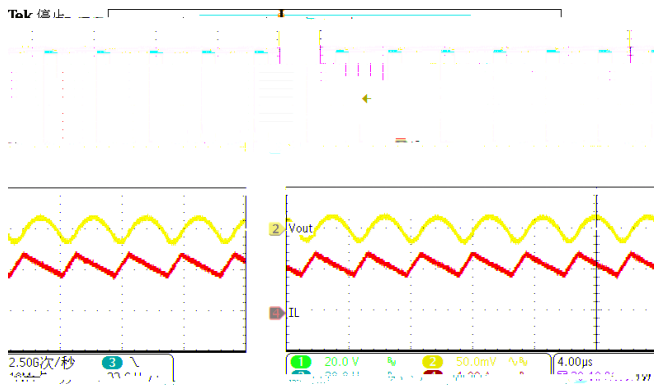
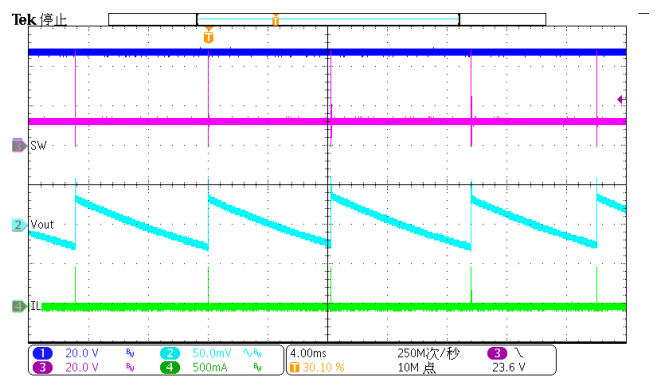
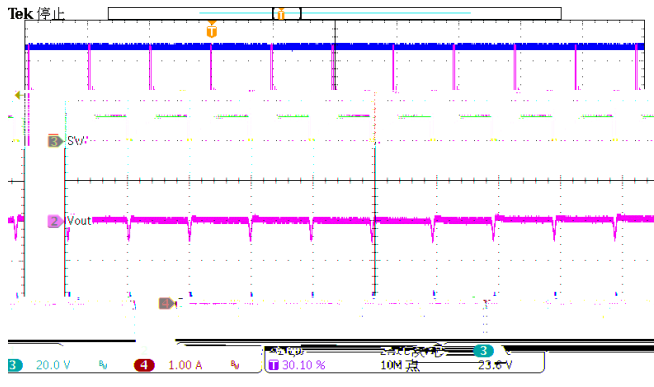
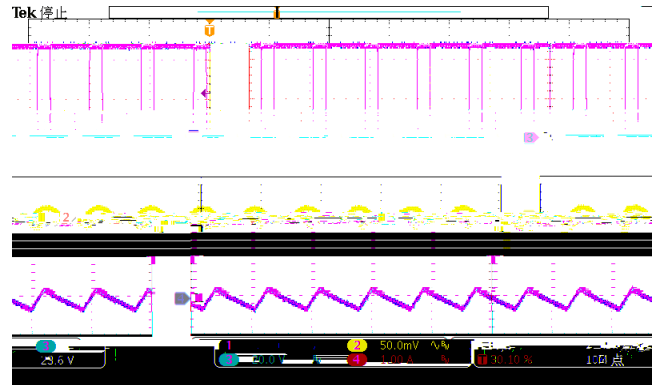
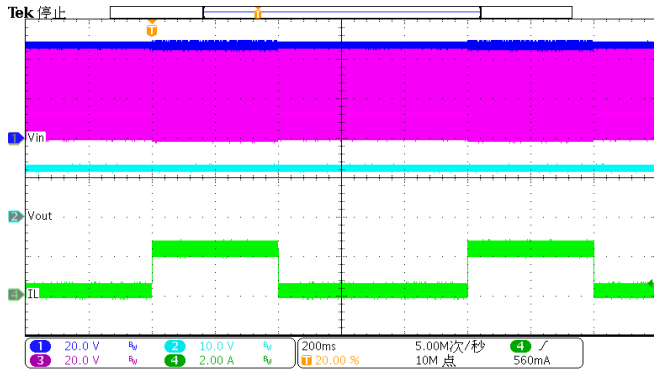

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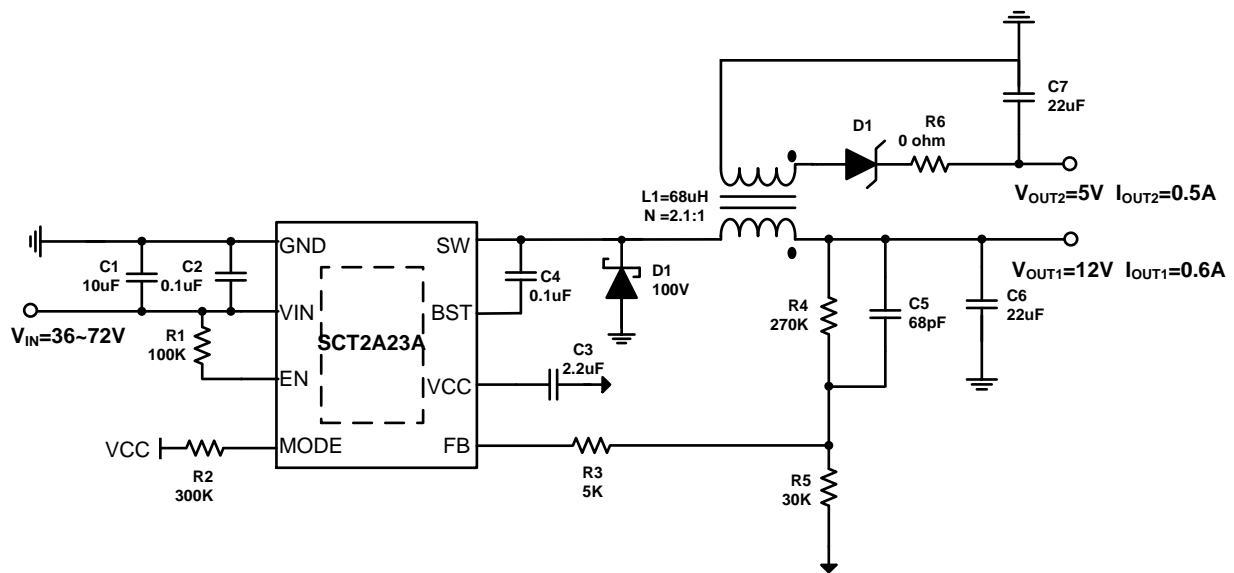
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The primary output voltage in a Iso-Buck converter should be no more than one half of the minimum input voltage. For example, at the minimum  $V_{IN}$  of 36 V, the primary output voltage ( $V_{OUT1}$ ) should be no higher than 18V. The isolated output 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:

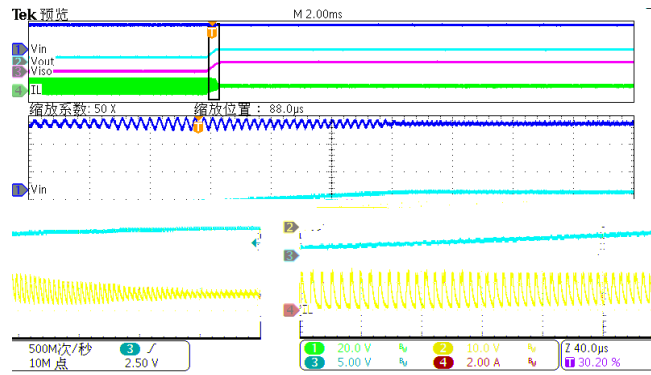
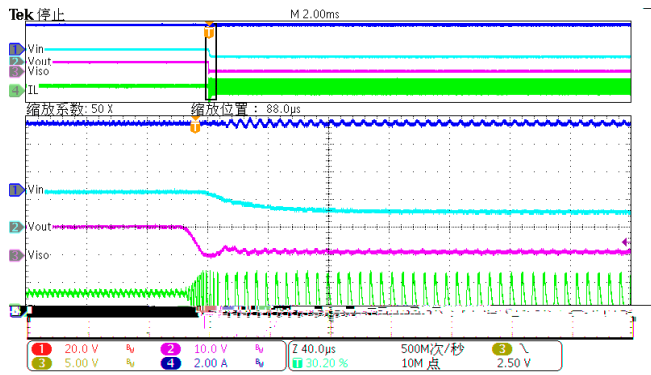
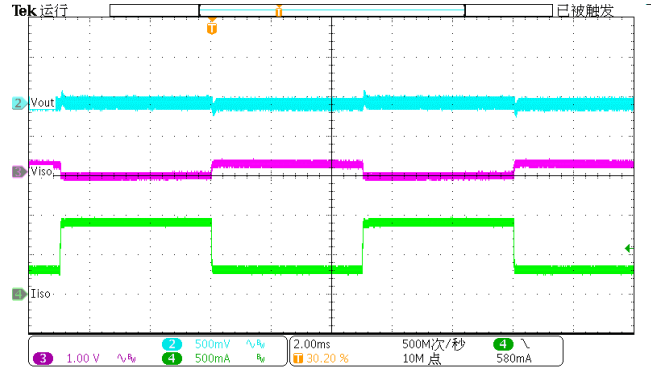
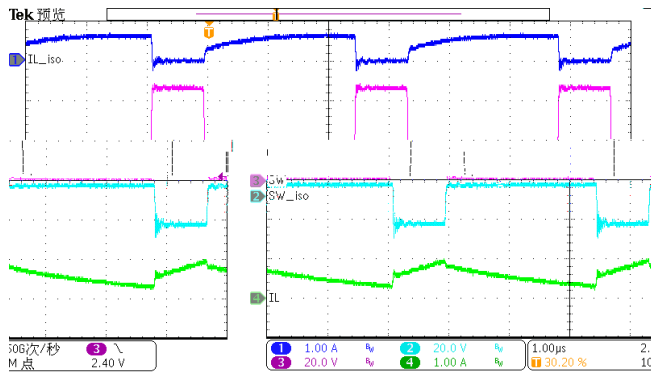
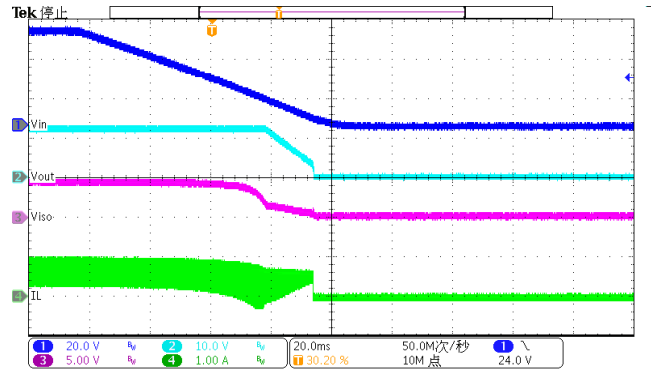
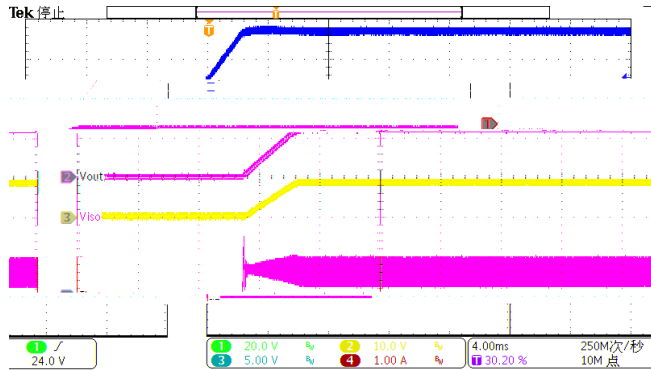
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The 0.7 V ( $V_{d1}$ ) represents the forward voltage drop of the secondary rectifier diode. By setting the primary output voltage  $V_{OUT1}$  by selecting the correct feedback resistors, the secondary voltage is regulated at  $V_{OUT2}$  nominally. 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

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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.



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2.

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## PACKAGE INFORMATION

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