ORDERABLE DEVICE	PACKAGING TYPE	STANDARD PACK QTY	PACKAGE MARKING	PINS	PACKAGE DESCRIPTION	MSL

NAME	PIN	PIN FUNCTION

SYMBOL	PARAMETER	TEST CONDITION	MIN	TYP	MAX	UNIT
Power Supply and Output						
Enable, Soft Start and Working Modes						

Under Voltage Lockout UVLO

Enable and Start up

Over Current Protection (OCP) and Hiccup Mode

Bootstrap Voltage Regulator

Thermal Shutdown

Typical Application

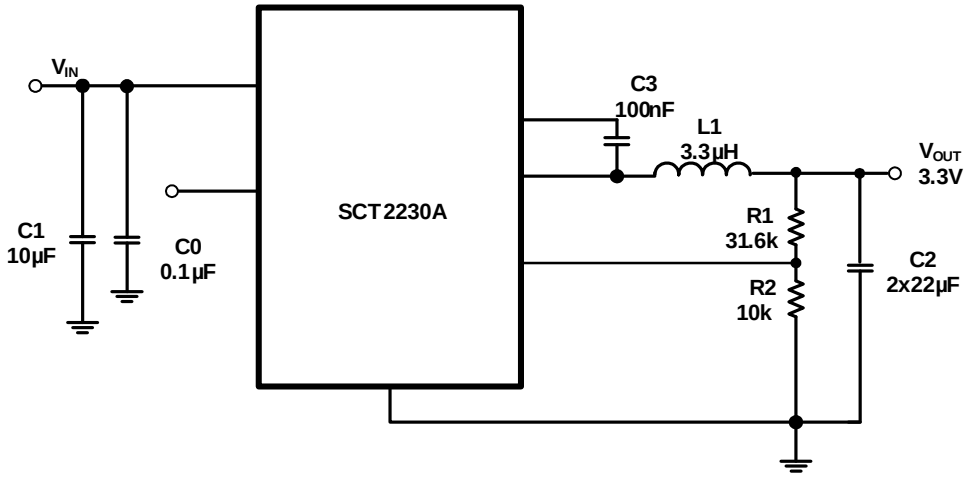

Figure 8. 12V Input, 3.3V/3A Output

Design Parameters

Design Parameters	Example Value

Input Capacitor Selection

Δ =

Output Feedback Resistor Divider Selection

$$_1 = \frac{(\quad - \quad) \times \ _2}{}$$

Table 2. Recommended Component Selections

Output Voltage (V)	R1 (kΩ)	R2 (kΩ)	L (μH)	C1 (μF)	C2 (μF)	C3 (nF)

Application Waveforms

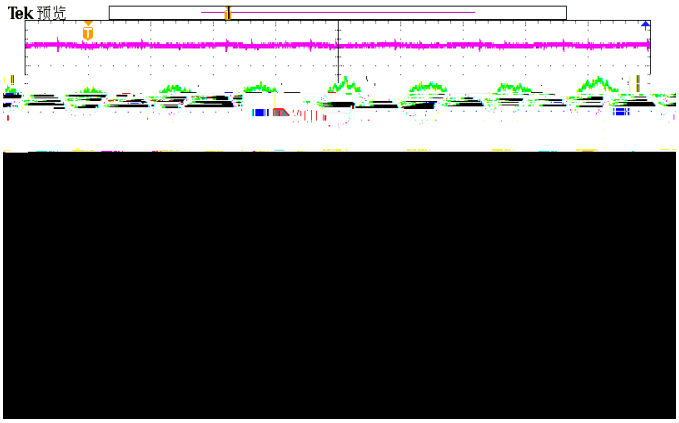

Figure 9. SW node waveform and Output Ripple
VIN=12V, IOUT=3A

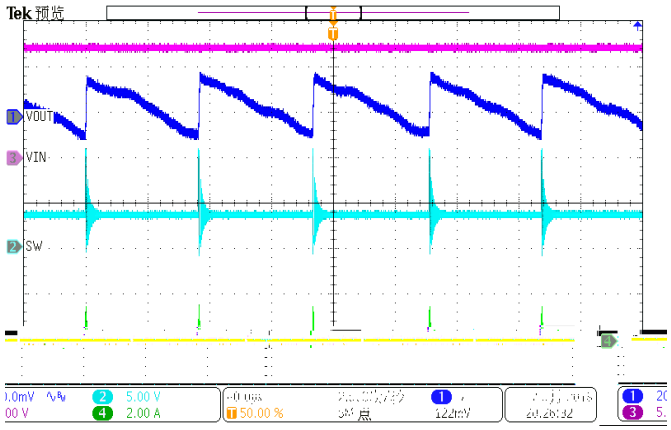

Figure 10. SW node Waveform and Output Ripple
VIN=12V, IOUT=10mA

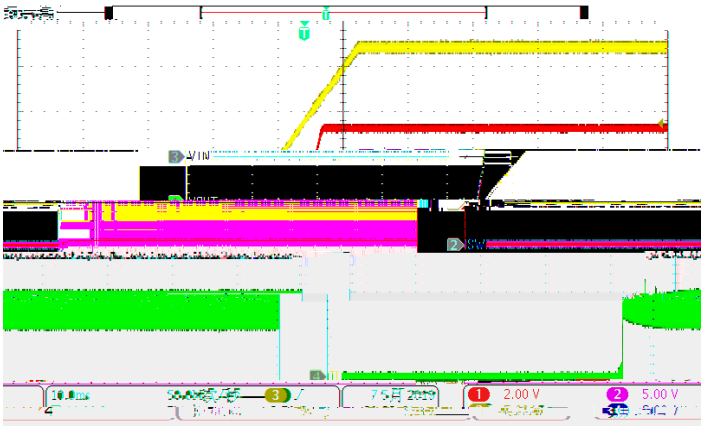

Figure 11. Power Up
VIN=12V, VOUT=3.3V, IOUT=3A

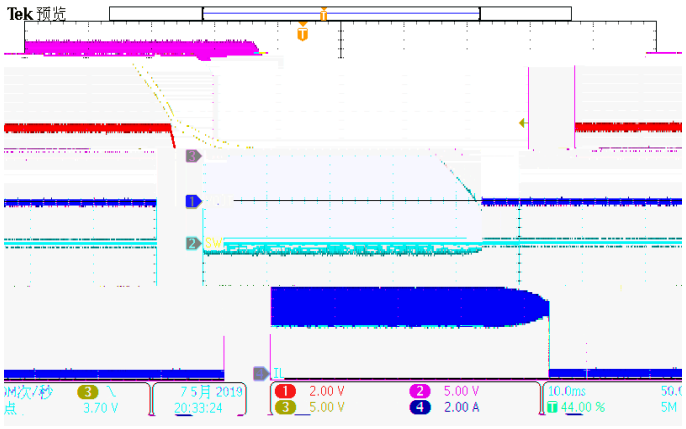

Figure 12. Power Down
VIN=12V, VOUT=3.3V, IOUT=3A

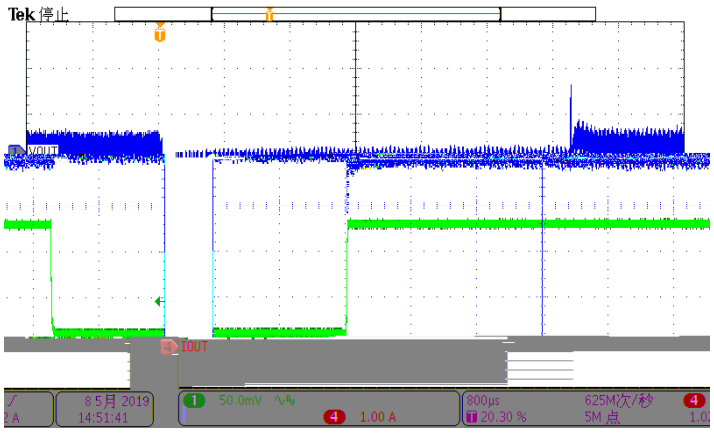

Figure 13. Load Transient
VOUT=3.3V, IOUT=0.3A to 2.7A, SR=250mA/us

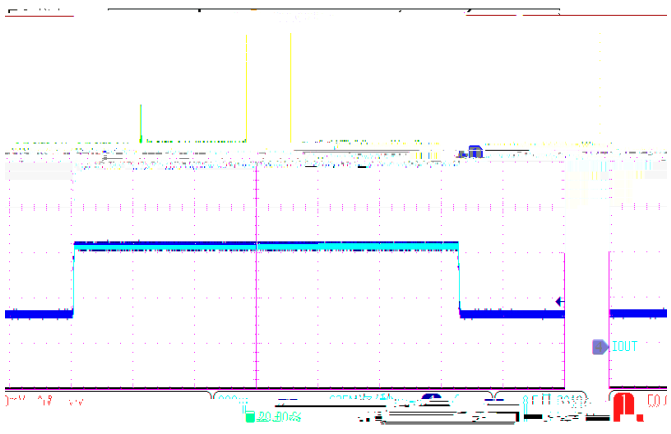

Figure 14. Load Transient
VOUT=3.3V, IOUT=0.75A to 2.25A, SR=250mA/us

Layout Guideline

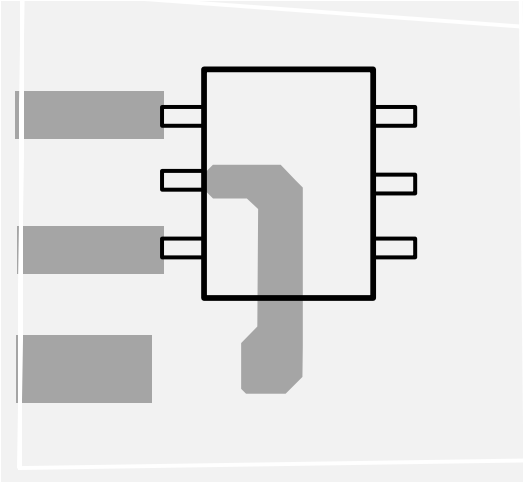

Figure 15. PCB Layout Example

Thermal Considerations

NOTE: