

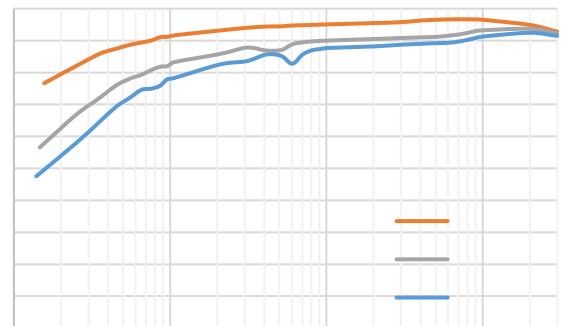
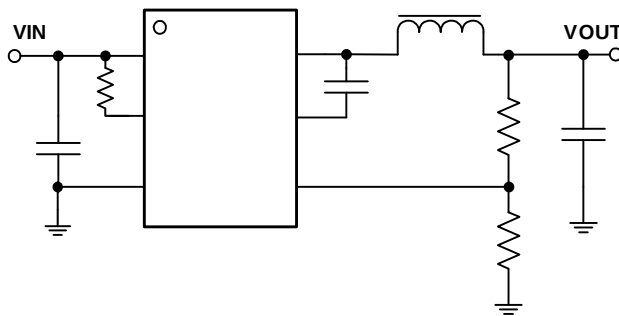
V Vin, 3A Synchronous Step-down DCDC Converter

FEATURES

DESCRIPTION

APPLICATIONS

TYPICAL APPLICATION



Efficiency, VOUT=3.3V

REVISION HISTORY

SCT2230B

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	TEST CONDITION	MIN	TYP	MAX	UNIT
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Power Supply and Output

TYPICAL CHARACTERISTICS

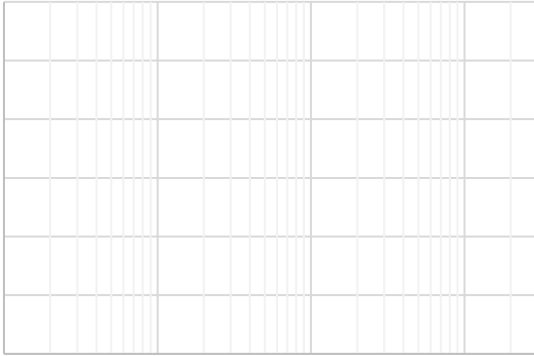


Figure 1. Efficiency vs Load Current(VIN=12V)

Figure 2. Line Regulation

Figure 3. Load Regulation

Figure 4. FB Voltage Vs. Temperature

Figure 5. UVLO Vs. Temperature

Figure 6. Quiescent Current Vs. Temperature

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FUNCTIONAL BLOCK DIAGRAM

OPERATION

Adaptive On-time Control

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Bootstrap Voltage Regulator

Thermal Shutdown

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APPLICATION INFORMATION

Typical Application

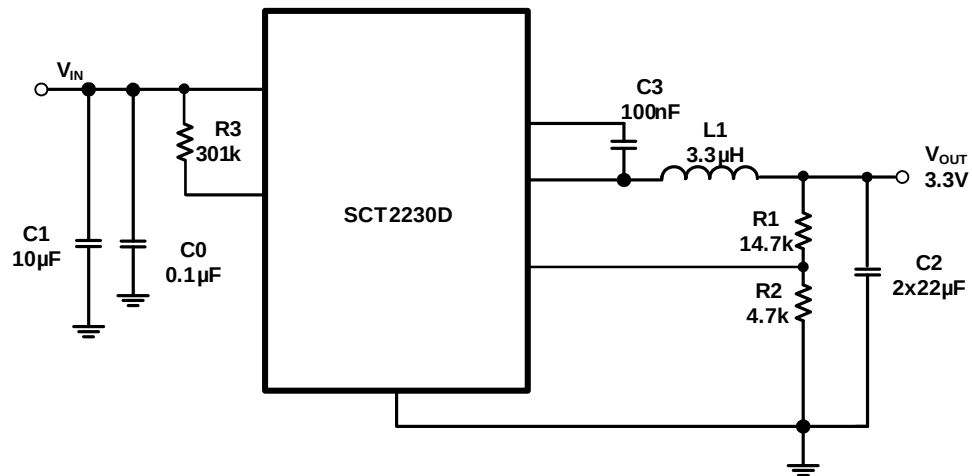


Figure 8. 12V Input, 3.3V/3A Output

Design Parameters

Design Parameters	Example Value

Input Capacitor Selection

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Table 1. Recommended Inductors

Part Number	L (μ H)	DCR Max (m Ω)	Saturation Current/Heat Rating Current (A)	Size Max (LxWxH mm)	Vendor

Output Feedback Resistor Divider Selection

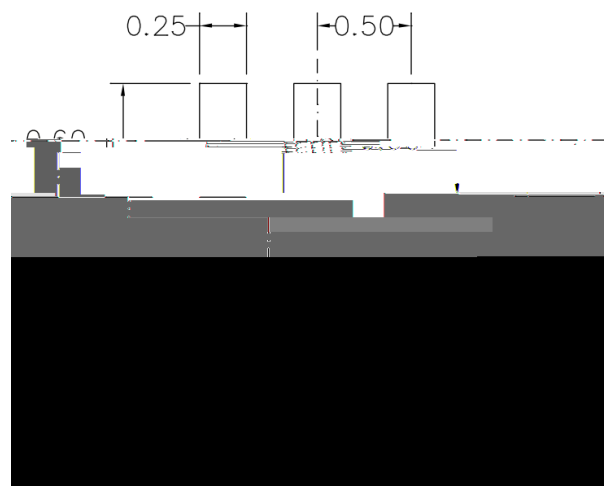
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Application Waveforms

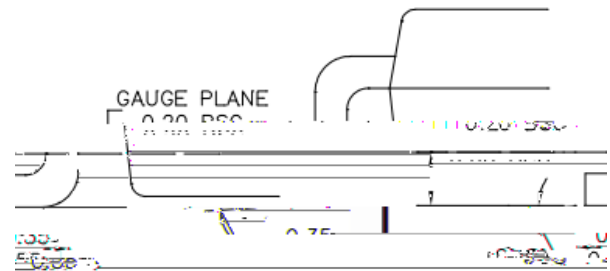
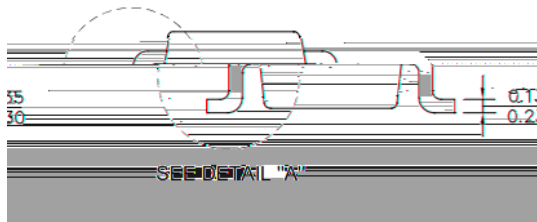
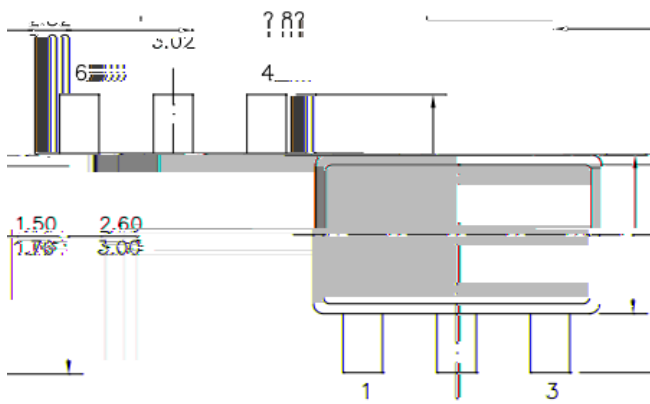
Layout Guideline

Thermal Considerations

Silicon Content Technology Co., Ltd.

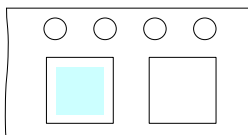
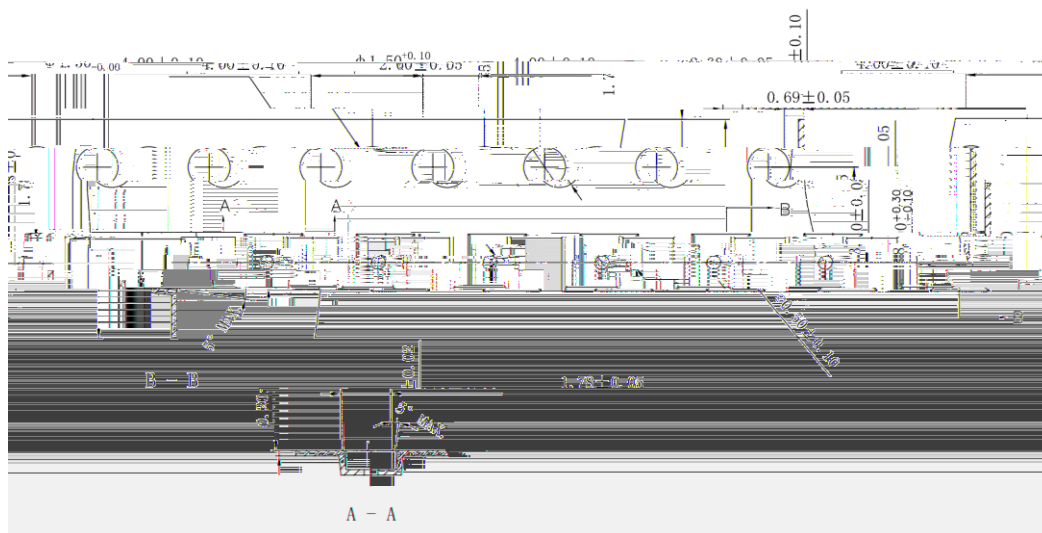
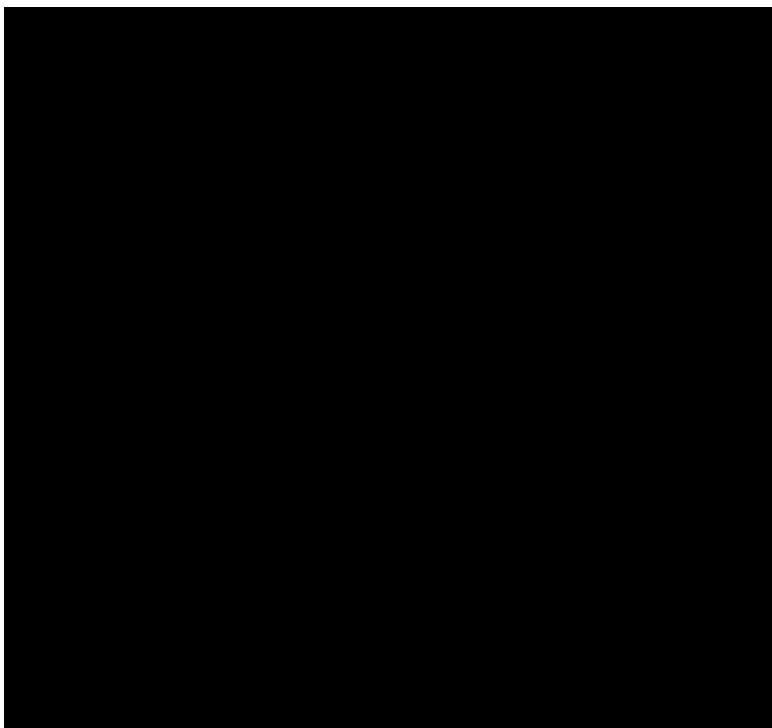
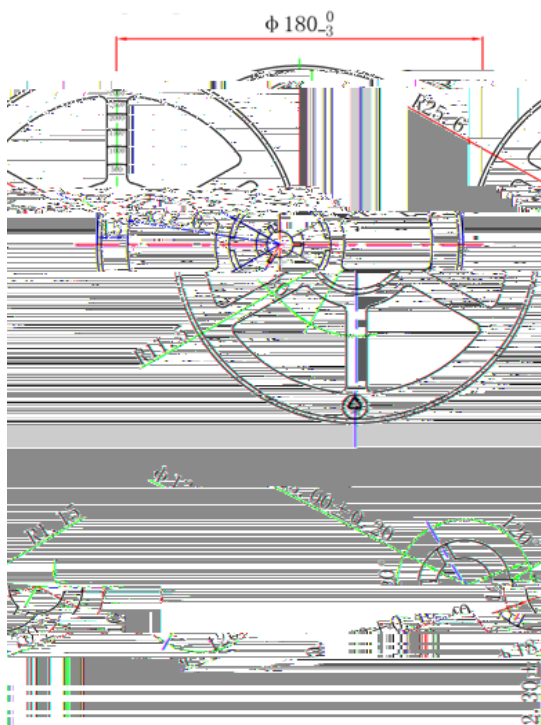


NOTE:



NOTE:

TAPE AND REEL INFORMATION



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TAPE AND REEL INFORMATION