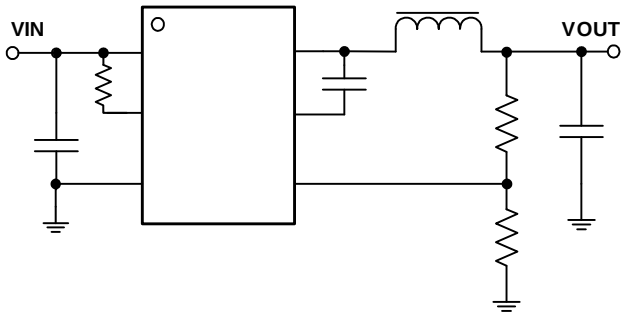
V Vin, 3A Synchronous Step-down DCDC Converter

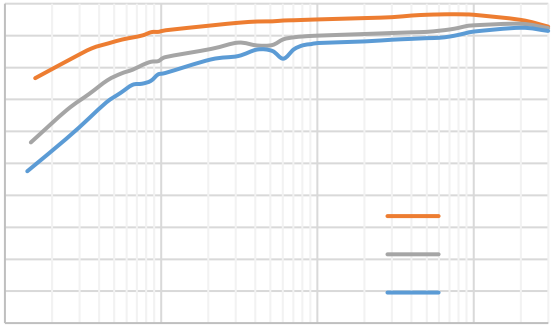
FEATURES

DESCRIPTION

APPLICATIONS

TYPICAL APPLICATION





Efficiency, VOUT=3.3V

REVISION HISTORY

PIN FUNCTIONS

NAME	PIN		PIN FUNCTION
	SOT563	SOT23-6	

ELECTRICAL CHARACTERISTICS

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

TYPICAL CHARACTERISTIC0

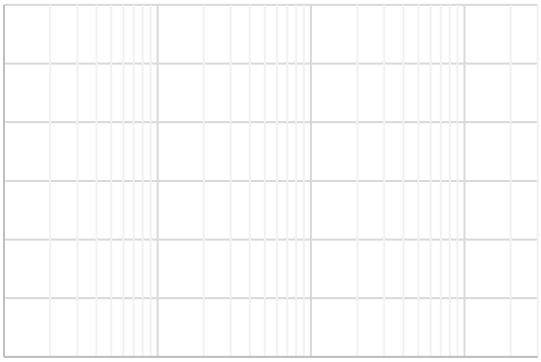


Figure 1. Efficiency vs Load Current(VIN=12V)

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

FUNCTIONAL BLOCK DIAGRAM

OPERATION

Adaptive On-time Control

SCT2230B

Bootstrap Voltage Regulator

Thermal Shutdown

°

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APPLICATION INFORMATION

Typical Application

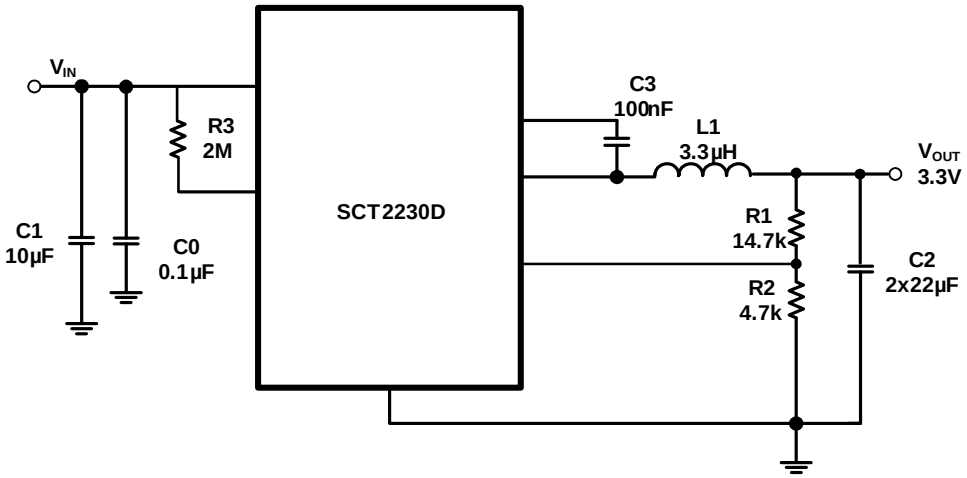


Figure 8. 12V Input, 3.3V/3A Output

Design Parameters

Design Parameters	Example Value

Input Capacitor Selection

Table 1. Recommended Inductors

Part Number	L (uH)	DCR Max (mΩ)	Saturation Current/Heat Rating Current (A)	Size Max (LxWxH mm)	Vendor

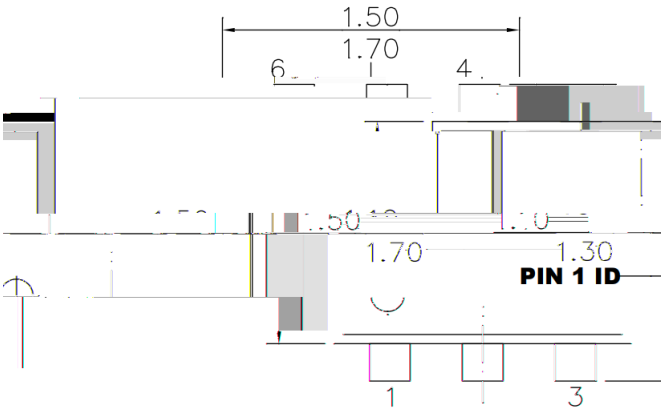
Output Feedback Resistor Divider Selection

Application Waveforms

Layout Guideline

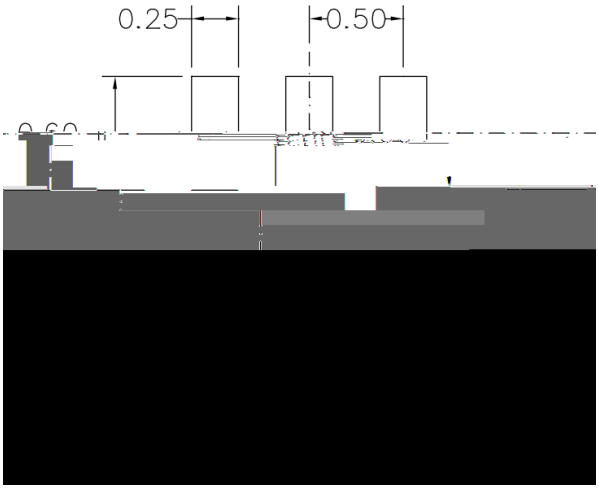
Thermal Considerations

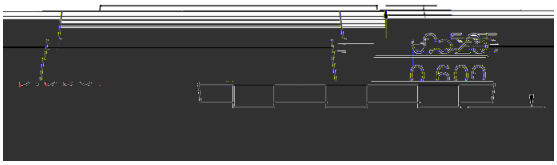
PACKAGE INFORMATION



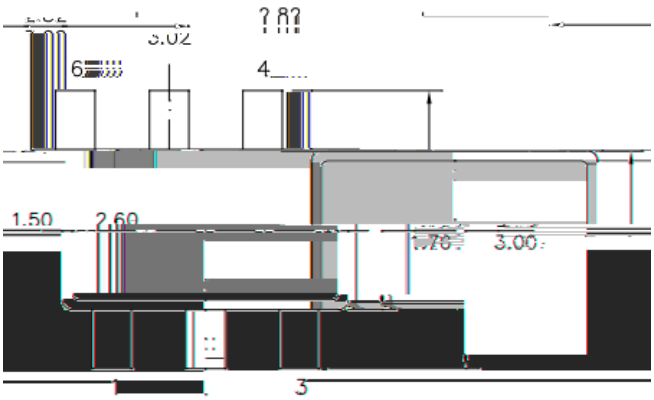


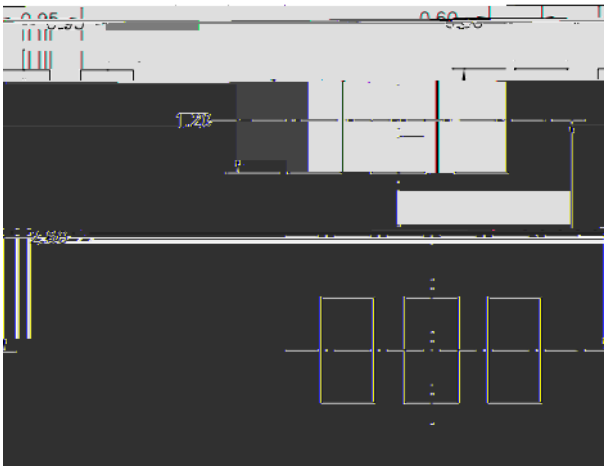


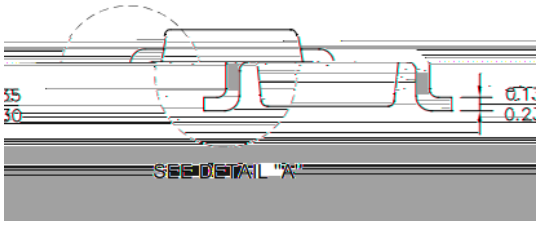


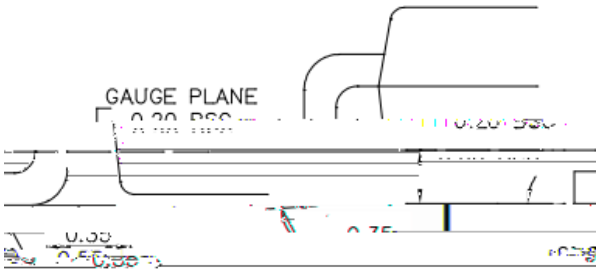


NOTE:











NOTE:

TAPE AND REEL INFORMATION

