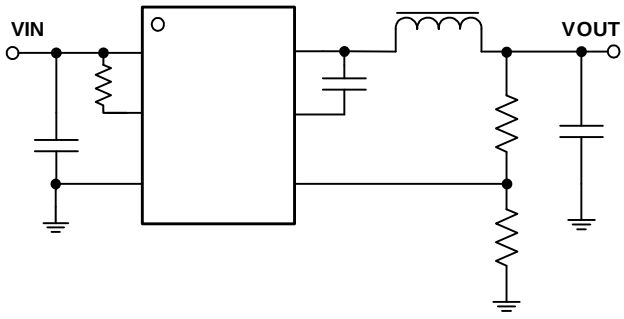
# V Vin, 3A Synchronous Step-down DCDC Converter

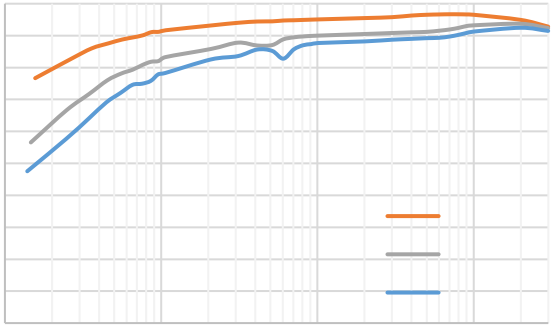
## FEATURES

## 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

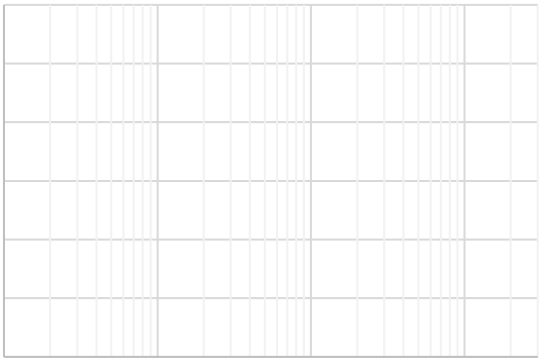


**Figure 1. Efficiency vs Load Current(VIN=12V)**

**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**

°

°

# APPLICATION INFORMATION

## Typical Application

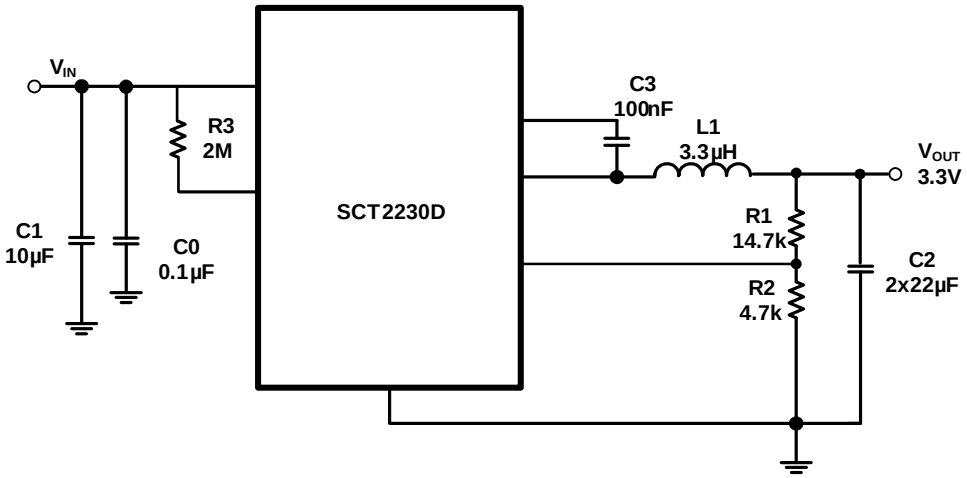



**Figure 8. 12V Input, 3.3V/3A Output**

### 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 |
|---|---|---|---|---|---|
| | | | | | |

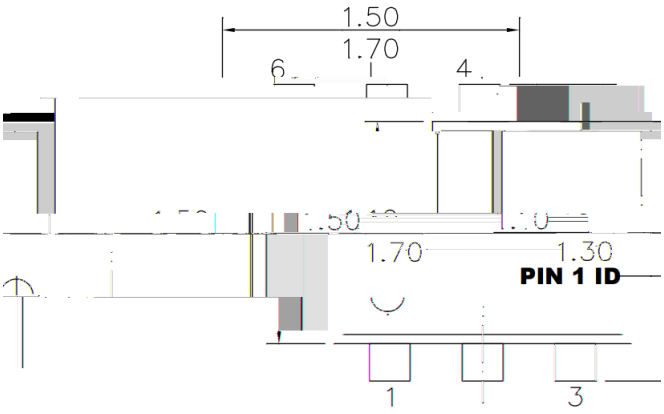
**Output Feedback Resistor Divider Selection**

## Application Waveforms

## Layout Guideline

## Thermal Considerations

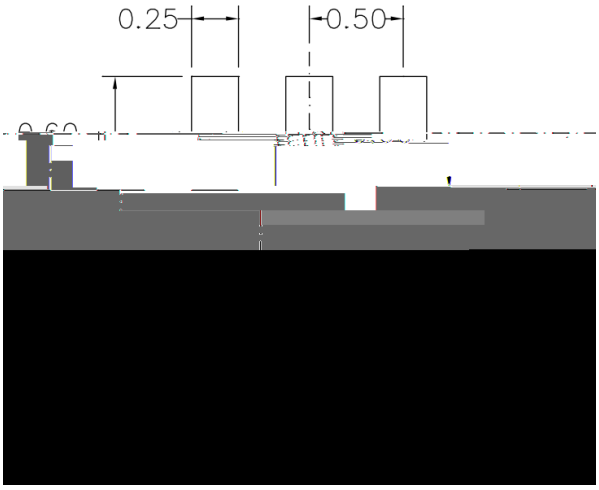
## PACKAGE INFORMATION

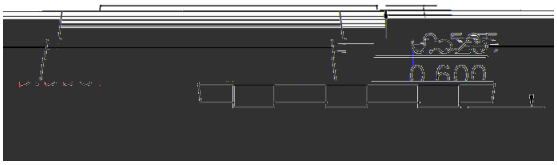




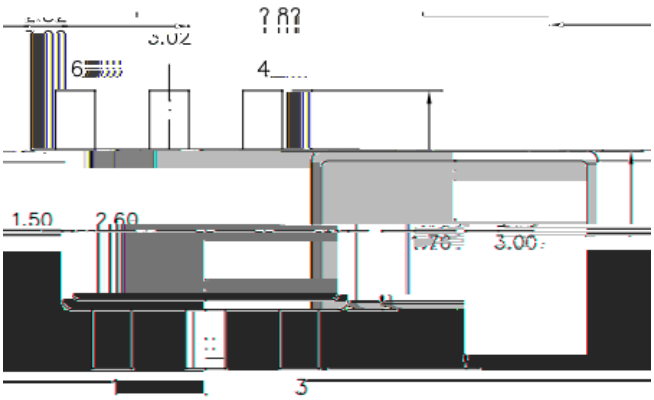


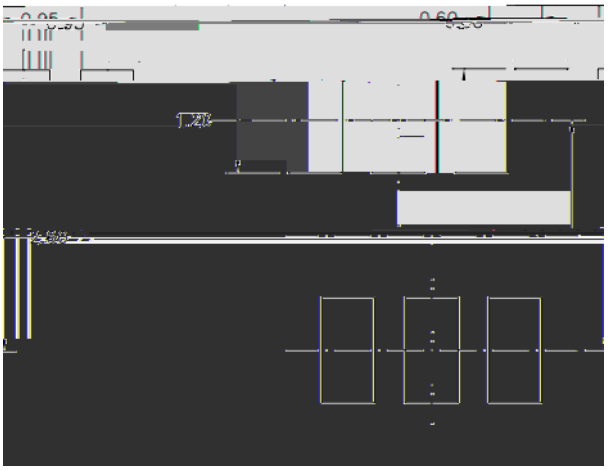


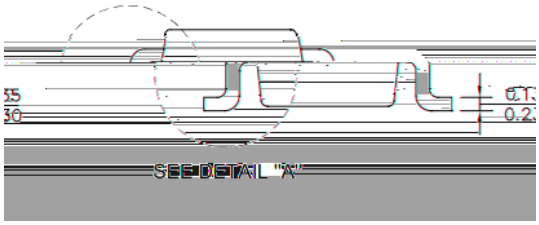


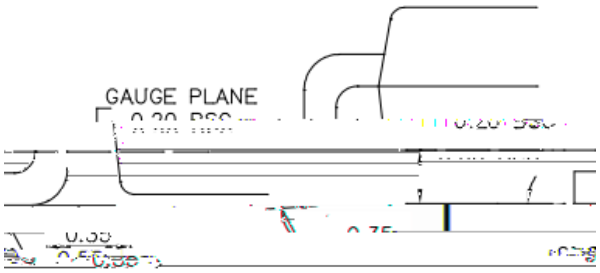



**NOTE:**








**NOTE:**

## TAPE AND REEL INFORMATION

