



| ORDERABLE<br>DEVICE | PACKAGING<br>TYPE | STANDARD<br>PACK QTY | PACKAGE<br>MARKING | PINS | PACKAGE<br>DESCRIPTION |
|---------------------|-------------------|----------------------|--------------------|------|------------------------|
|                     |                   |                      |                    |      |                        |
|                     |                   |                      |                    |      |                        |

| DESCRIPTION | MIN | MAX | UNIT |
|-------------|-----|-----|------|
|             |     |     |      |
|             |     |     |      |
|             |     |     |      |
|             |     |     |      |
|             |     |     |      |
|             |     |     |      |
|             |     |     |      |
|             |     |     |      |

SCT CON

## SCT41080Q

---

| NAME | NO.       |           | I/O <sup>(1)</sup> | PIN FUNCTION |
|------|-----------|-----------|--------------------|--------------|
|      | A Version | B Version |                    |              |
|      |           |           |                    |              |
|      |           |           |                    |              |
|      |           |           |                    |              |
|      |           |           |                    |              |
|      |           |           |                    |              |
|      |           |           |                    |              |
|      |           |           |                    |              |
|      |           |           |                    |              |
|      |           |           |                    |              |
|      |           |           |                    |              |

| PARAMETER | DEFINITION | MIN | MAX | UNIT |
|-----------|------------|-----|-----|------|
|           |            |     |     |      |
|           |            |     |     |      |
|           |            |     |     |      |
|           |            |     |     |      |
|           |            |     |     |      |

| PARAMETER | DEFINITION | MIN | MAX | UNIT |
|-----------|------------|-----|-----|------|
|           |            |     |     |      |
|           |            |     |     |      |

SC



# SCT41080Q

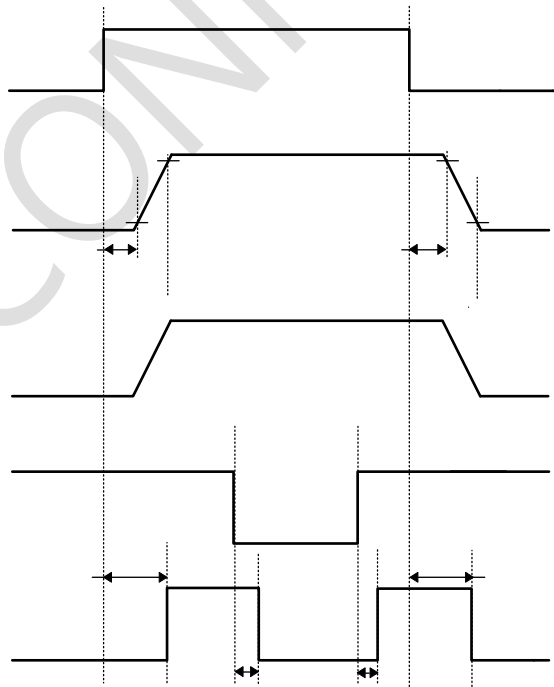
|  |  |    |  |  |
|--|--|----|--|--|
|  |  |    |  |  |
|  |  |    |  |  |
|  |  | °C |  |  |

## Switching

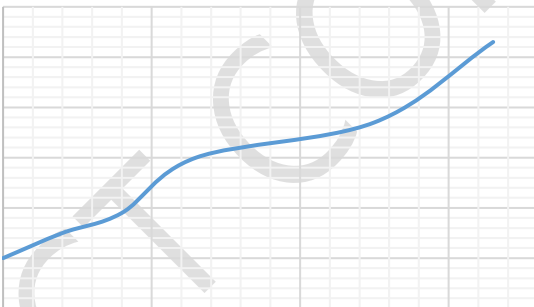
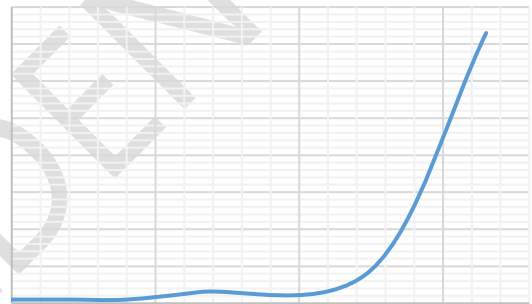
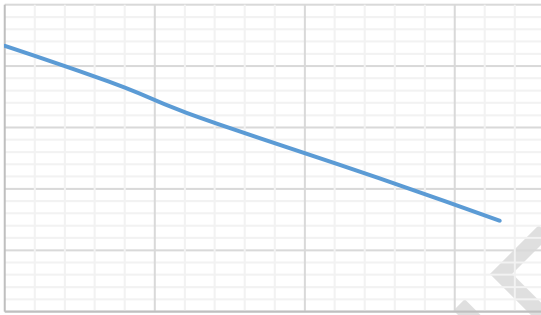
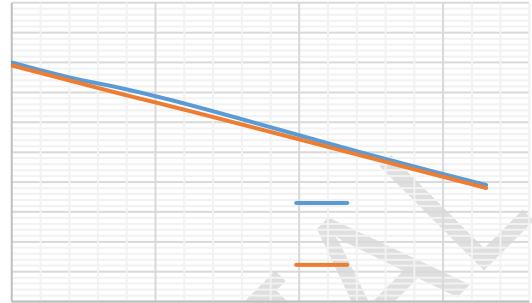
|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

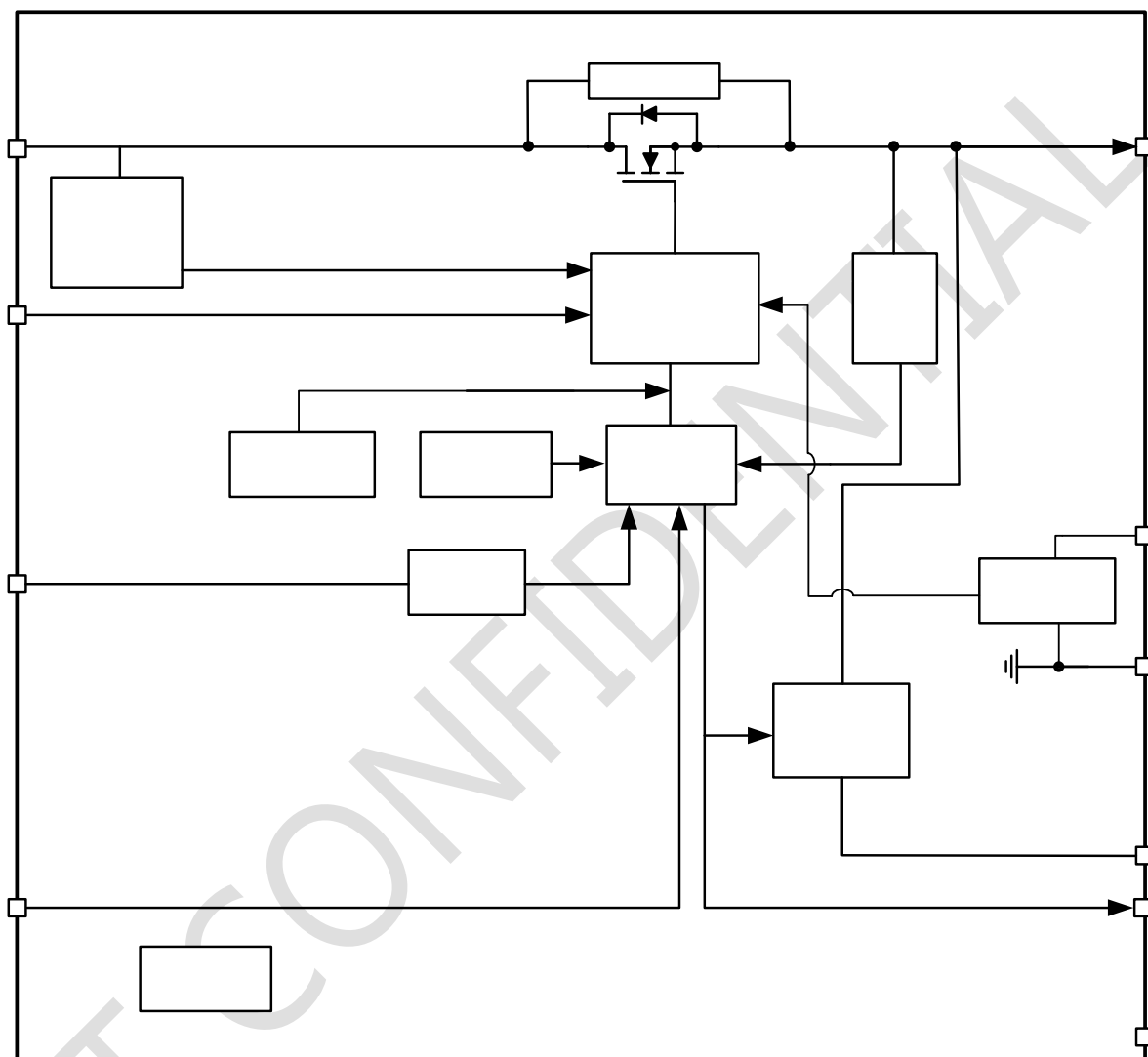
## Current Sense timing

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |



SCT CONFIDENTIAL





## Overview

## Adjustable Current Limit

•  
•

$$= \frac{x}{\quad}$$

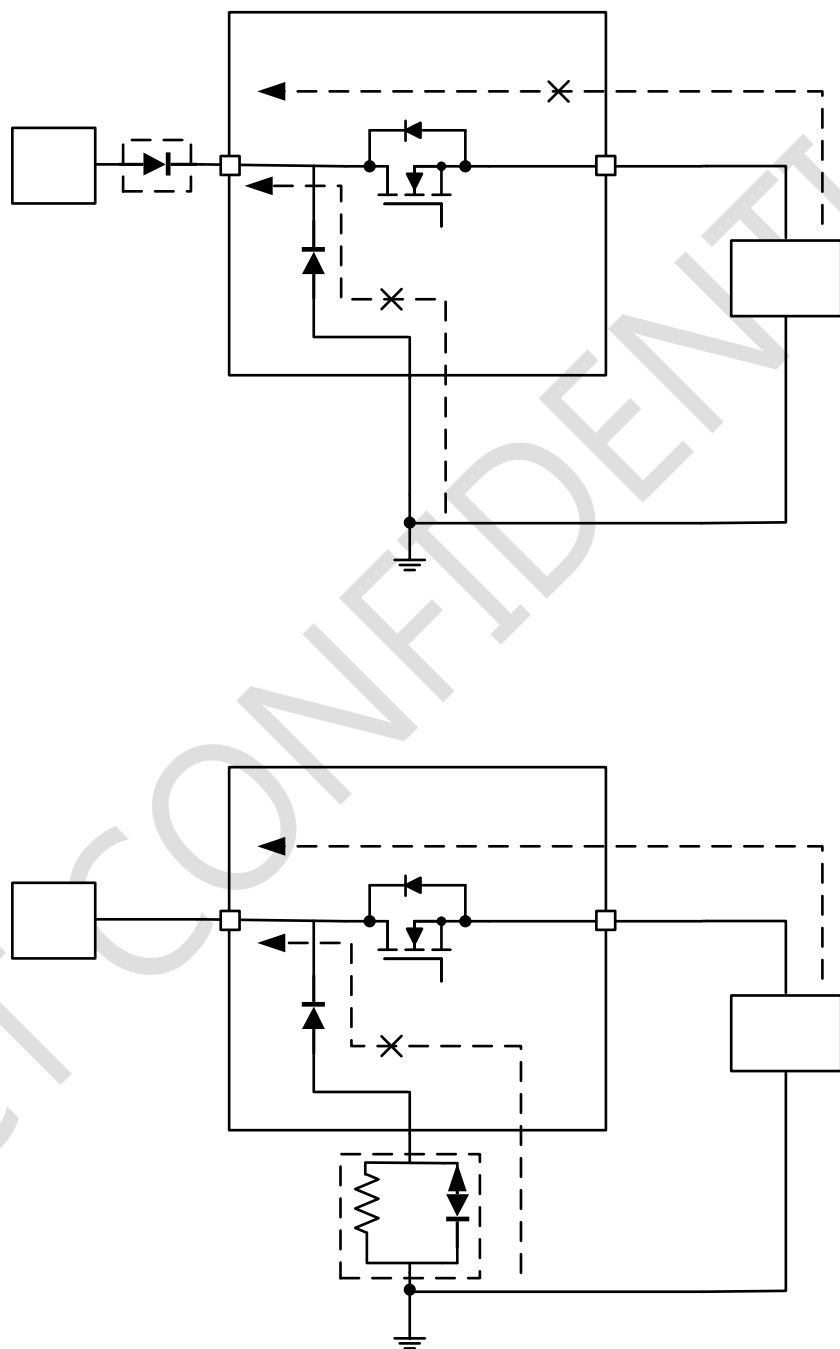


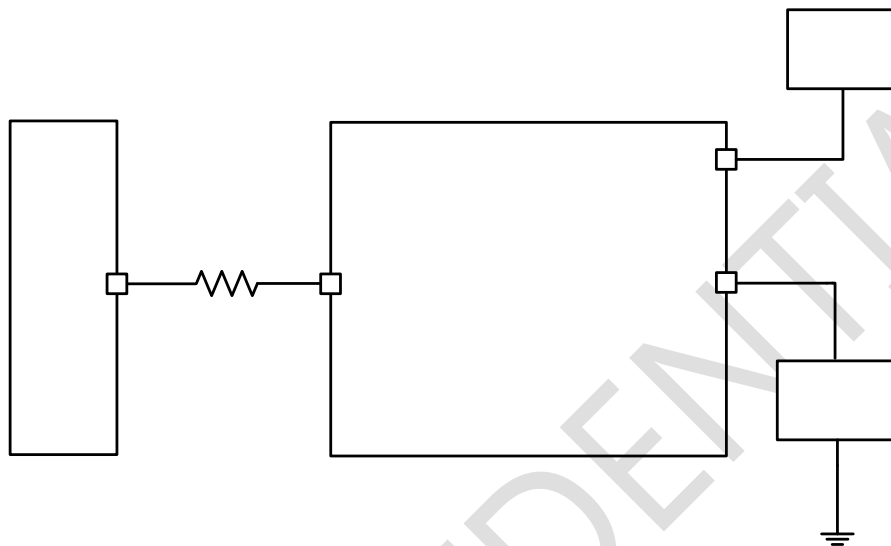




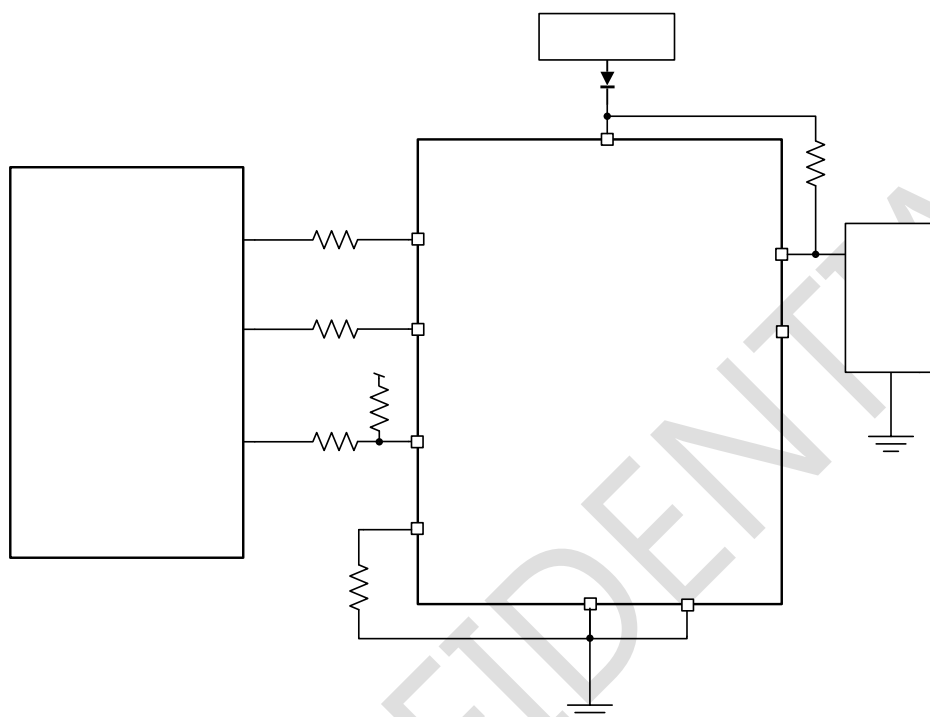
SCTC

## Reverse-Current Protection



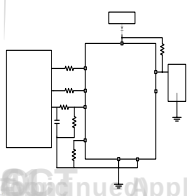


Typical Application

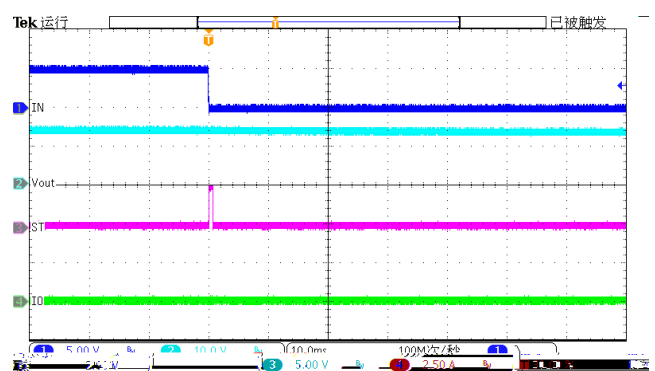
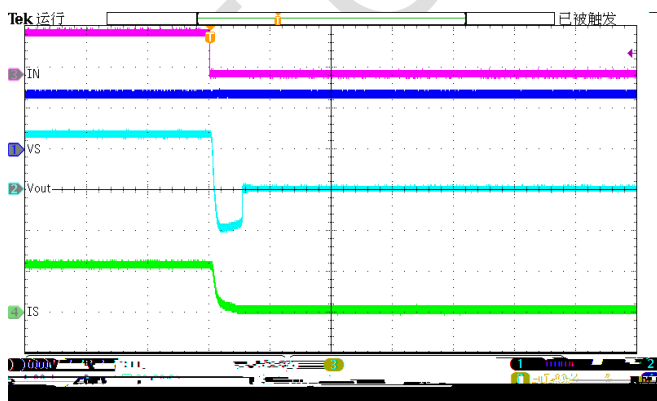
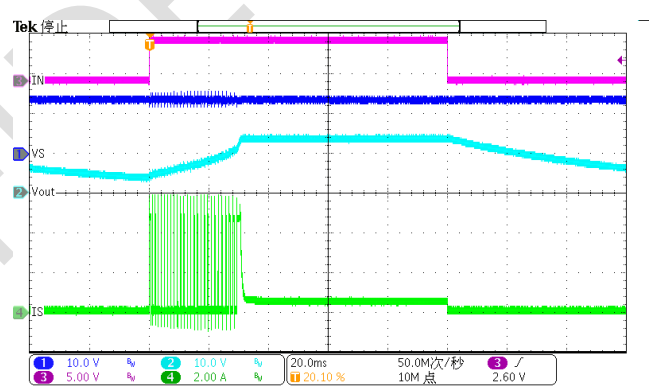
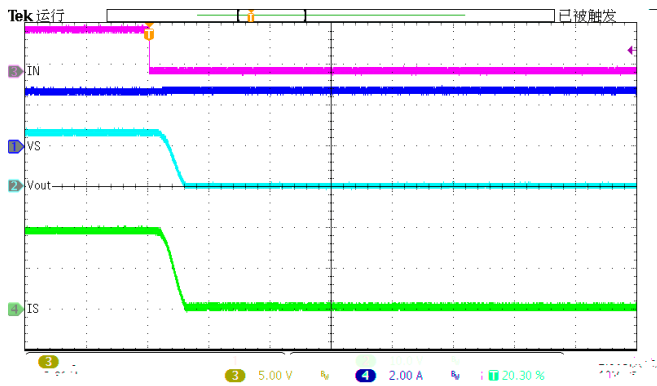
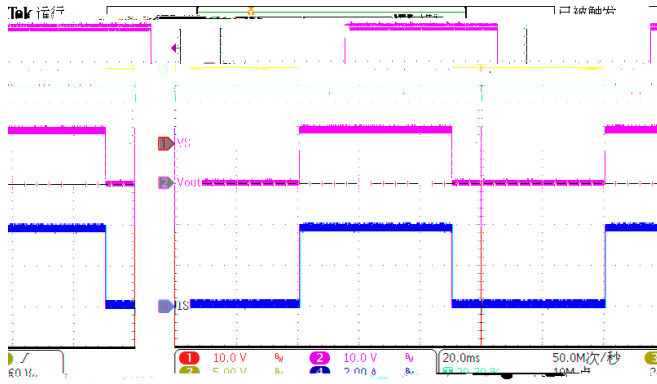


Design Parameters

| Design Parameters | Example Value |
|-------------------|---------------|
|                   |               |
|                   |               |
|                   |               |
|                   |               |

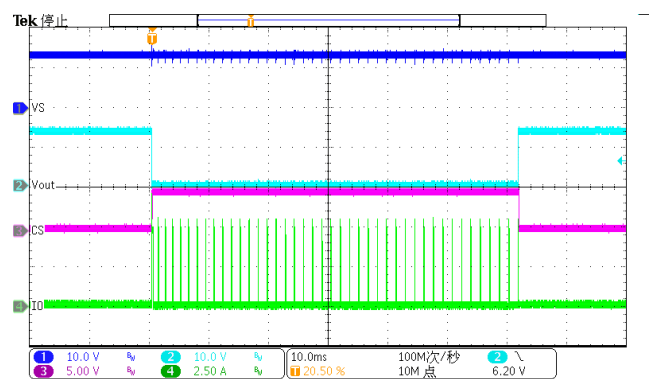
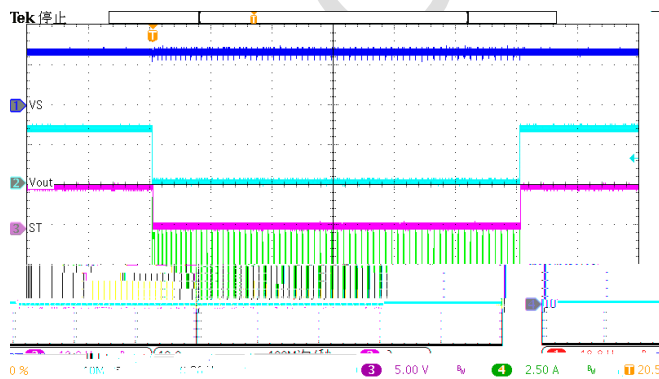
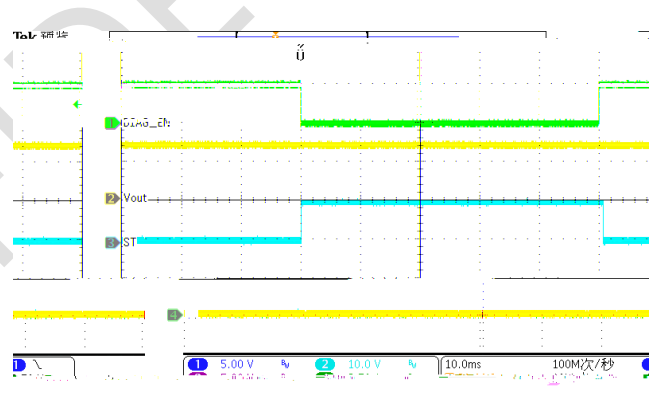
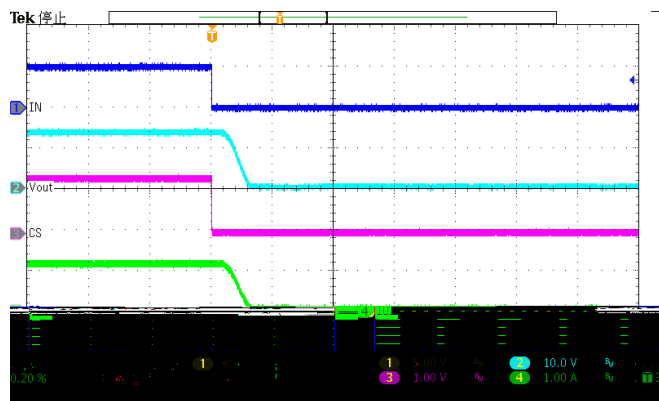
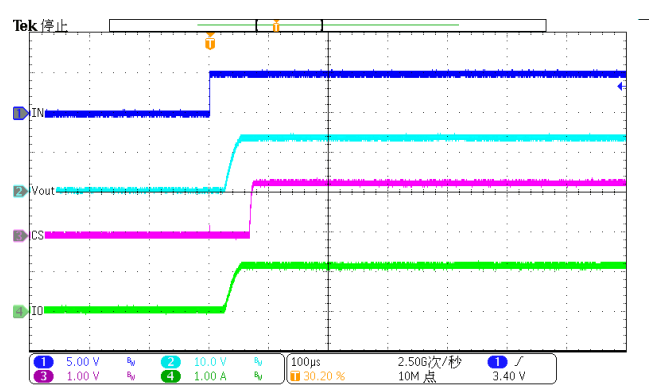
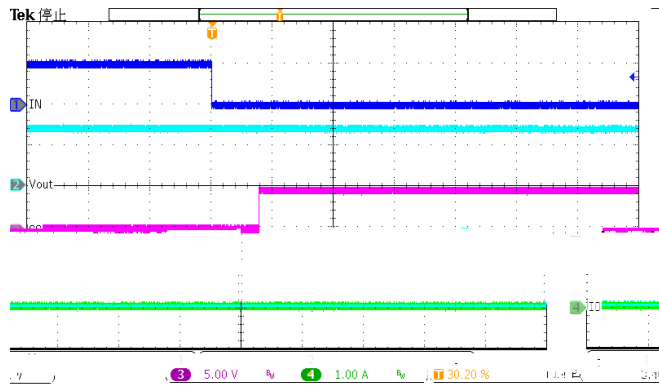


## Application Waveforms



# SCT41080Q

## Application Waveforms(continued)

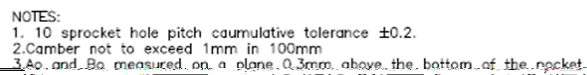


Layout Guideline

SCT CONFIDENTIAL

SCTC





|  |        |        |  |  |  |
|--|--------|--------|--|--|--|
|  | $\Phi$ | $\Phi$ |  |  |  |
|  |        |        |  |  |  |