Orderable Device	Output Voltage	Package	Package Marking	PINS	Transport Media, Quantity
				5	Tape & Reel, 3000
				5	Tape & Reel, 3000
				5	Tape & Reel, 3000
				5	Tape & Reel, 3000
				6	Tape & Reel, 3000
				6	Tape & Reel, 3000
				6	Tape & Reel, 3000
				8	Tape & Reel, 5000
				5	Tape & Reel, 3000
				6	Tape & Reel, 3000

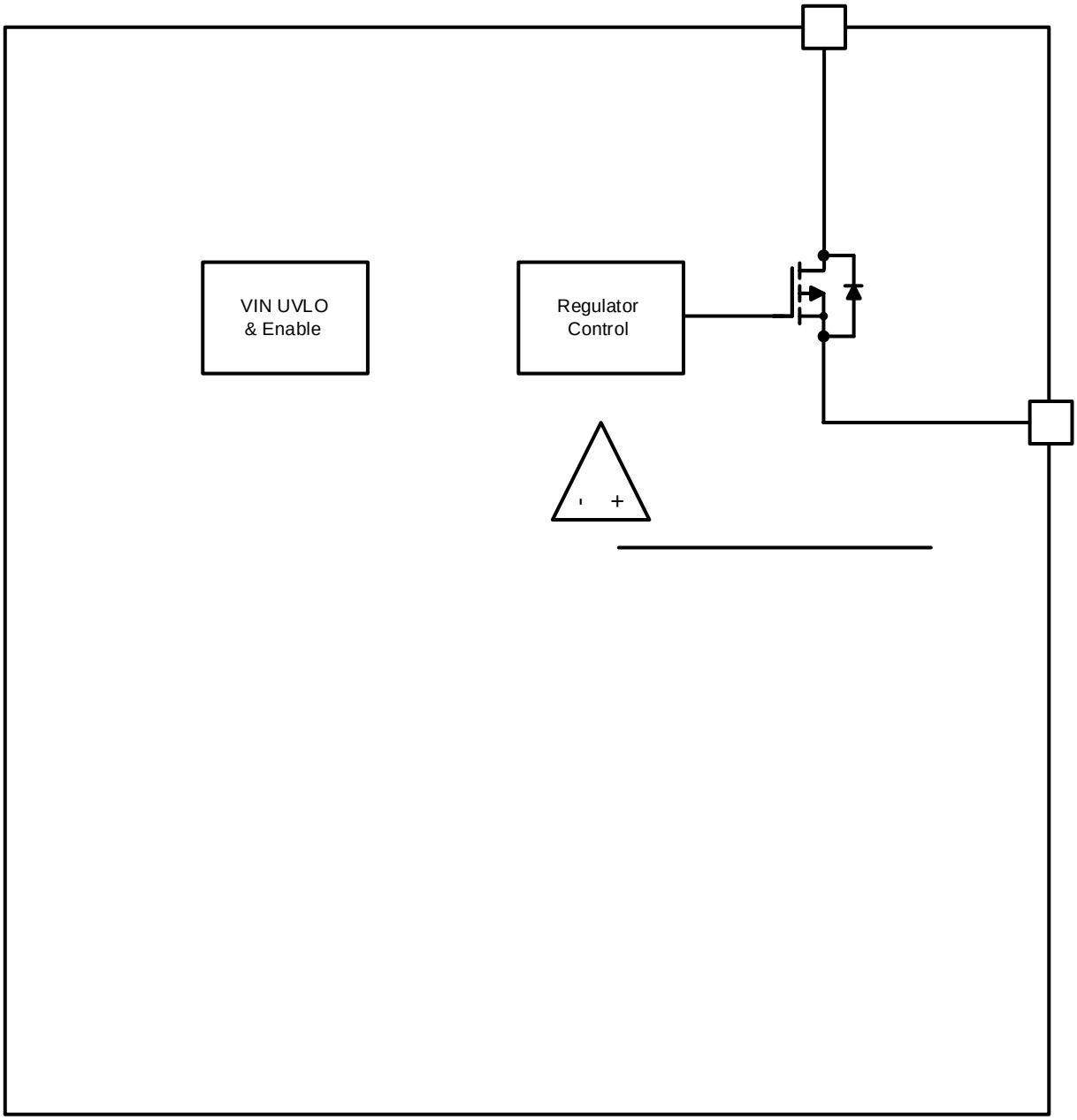
NAME	NAME	PIN FUNCTION

SYMBOL	PARAMETER	TEST CONDITION	MIN	TYP	MAX	UNIT
Power Supply						

SYMBOL	PARAMETER	TEST CONDITION	MIN	TYP	MAX	UNIT
Over Voltage Protection						
Enable and Soft-startup						

(2)

(3)


VIN UVLO
& Enable
Regulator
Control

Overview

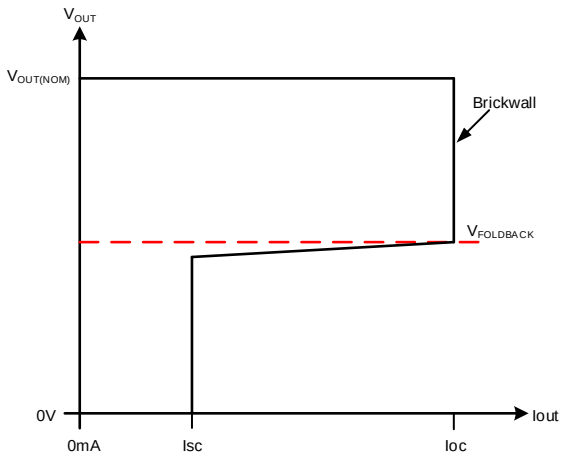
Output Enable

Regulated Output Voltage

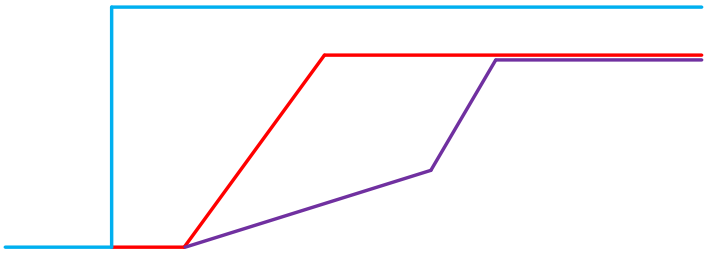
The SCT71005Q product provide adjustable output which can adjust the output voltage from 0.5V to 5V.

Output Discharge

Over Current Limit and Foldbak w .im ȳ ƀ

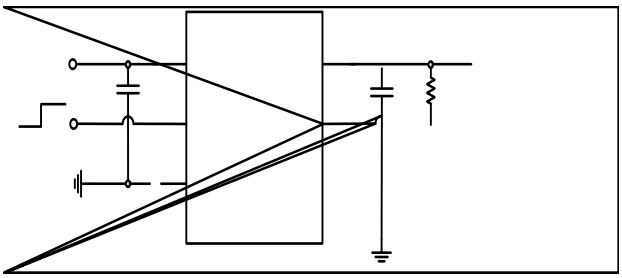


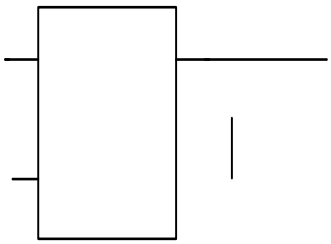
Internal Soft-Start

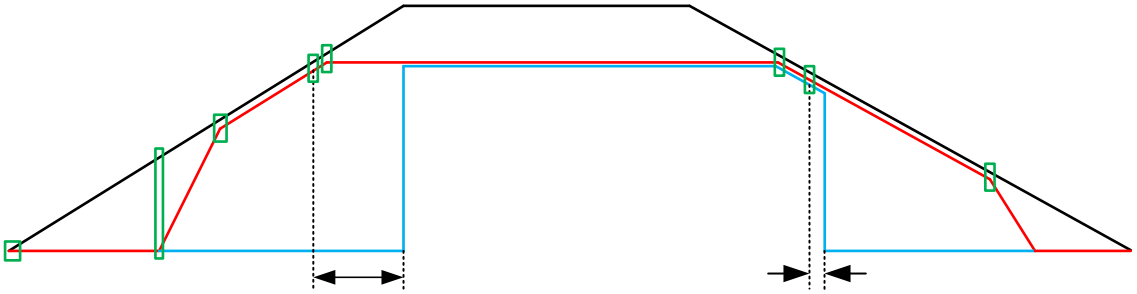


Power-Good and Power-Good Delay

≥

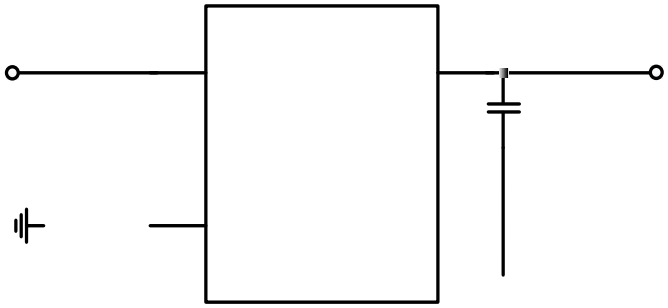






Thermal Shutdown

Typical application 1:



Design Parameters

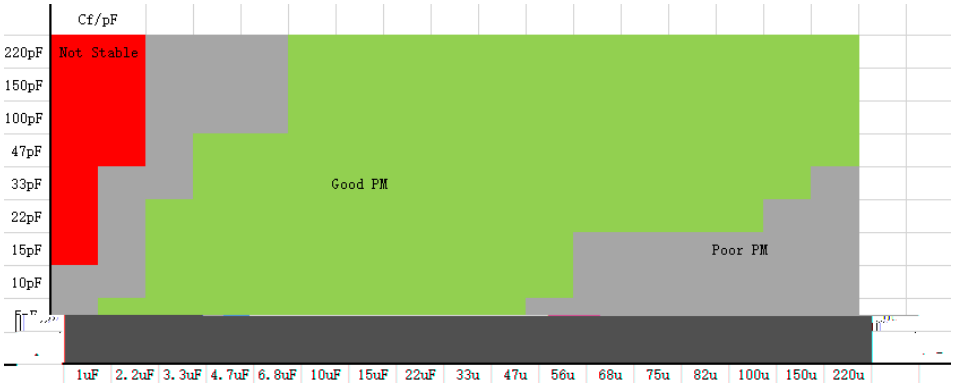
Design Parameters	Example Value

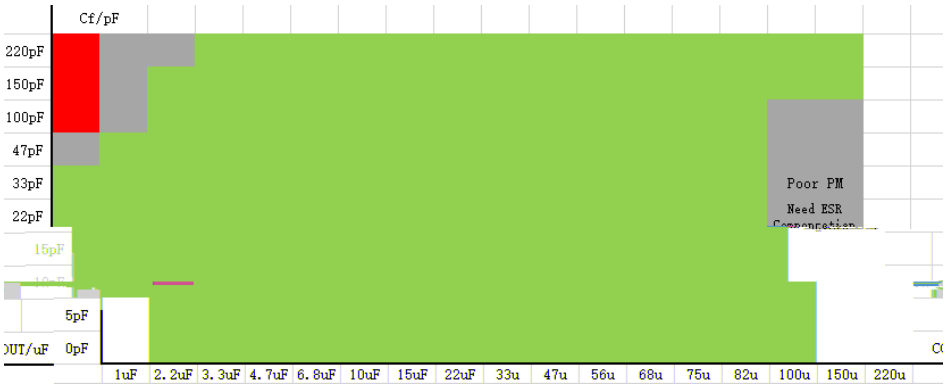
Typical application 2:

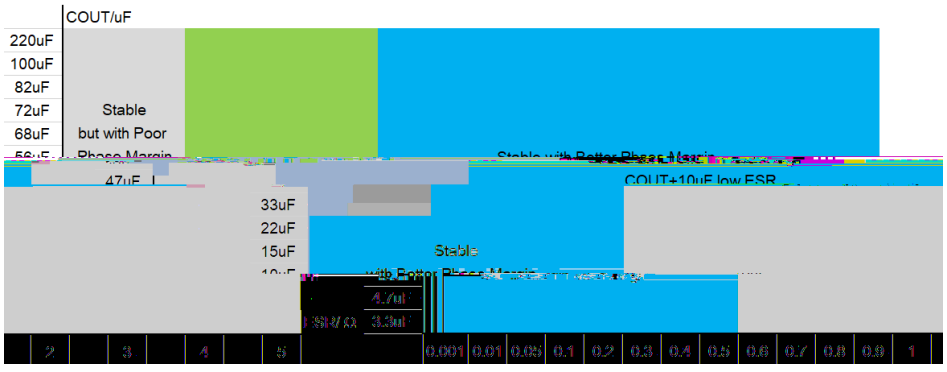
Design Parameters

Design Parameters	Example Value

Output Voltage

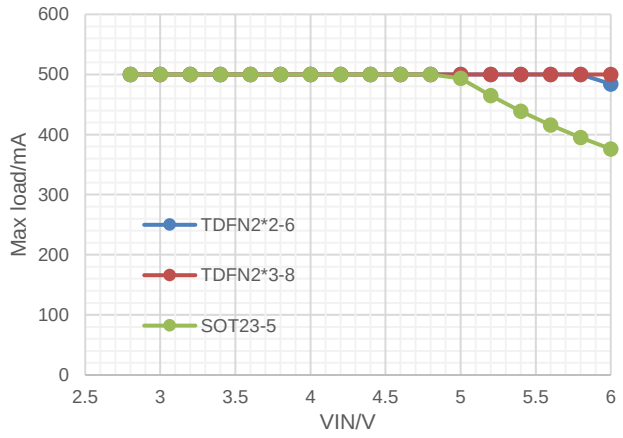

Cf/pF
220pF
150pF
100pF
47pF
33pF
22pF
15pF
10pF
Not Stable
Good PM
Poor PM
1uF
2.2uF
3.3uF
4.7uF
6.8uF
10uF
15uF
22uF
33u
47u
56u
68u
75u
82u
100u
150u
220u

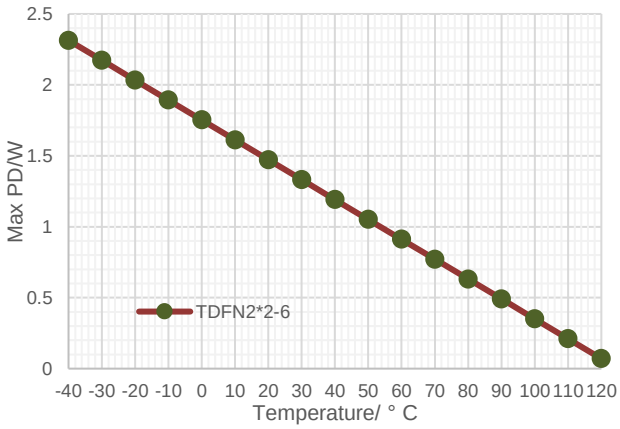

Cf/pF
220pF
150pF
100pF
47pF
33pF
22pF
15pF
5pF
0pF
Poor PM
Need ESR
1uF
2.2uF
3.3uF
4.7uF
6.8uF
10uF
15uF
22uF
33u
47u
56u
68u
75u
82u
100u
150u
220u

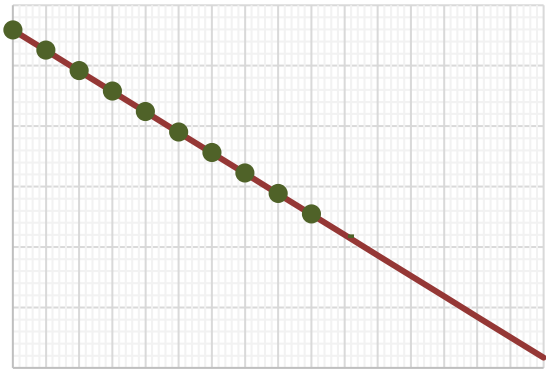

COUT/uF
220uF
100uF
82uF
72uF
68uF
47uF
33uF
22uF
15uF
Stable
but with Poor
Stable
0.001
0.01
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

Power Dissipation and Thermal Performance

1.0047>4<0011>] TJ 2 Tf 1 0 0 1 305.21 Tm 0 g 0 G [<00580056>-3<004C>-6<0051004A>4<0003>13<97.548.040


600
500
400
300
200
100
0
Max load/mA
2.5
3
3.5
4
4.5
5
5.5
6
VIN/V
TDFN2*2-6
TDFN2*3-8
SOT23-5

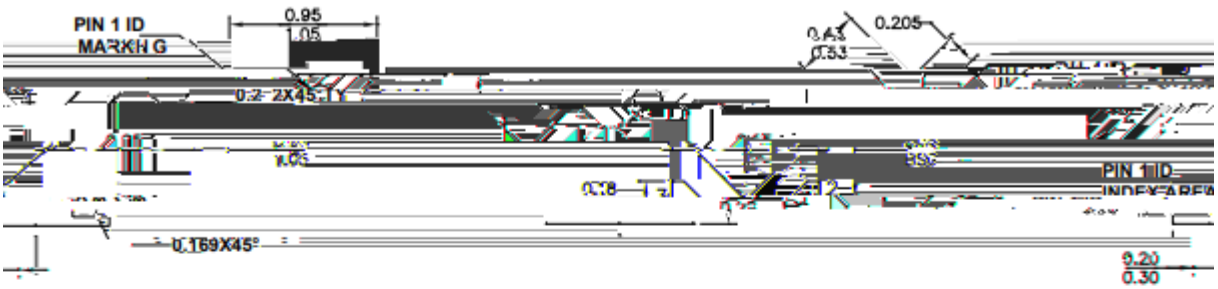

2.5
2
1.5
1
0.5
0
Max PD/W
-40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120
Temperature/ ° C
TDFN2*2-6



Application Waveforms

H0‘a5L-AWF

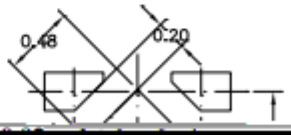
NOTE:



OTTOM VIEW **TOP VIEW** **B**

NOTE:

1) ALL DIMENSIONS ARE IN MILLIMETERS.



[redacted]

NOTE:

1.
2.
3.
4.
5.
6.

SCT71005Q Series