C G D DE C

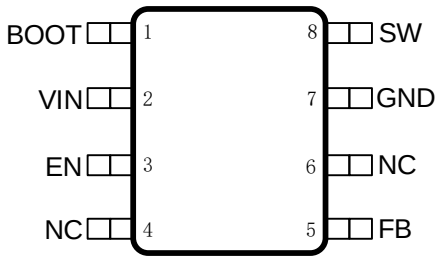
G C C C E

D FE I F C E D

Over operating free-air temperature unless otherwise noted (1)

DESCRIPTION	MIN	MAX	UNIT

FC E



Top View: SOP-8L

C C E E D

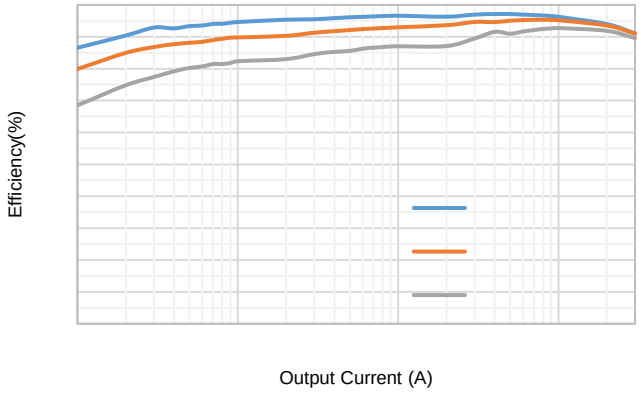
D C E D

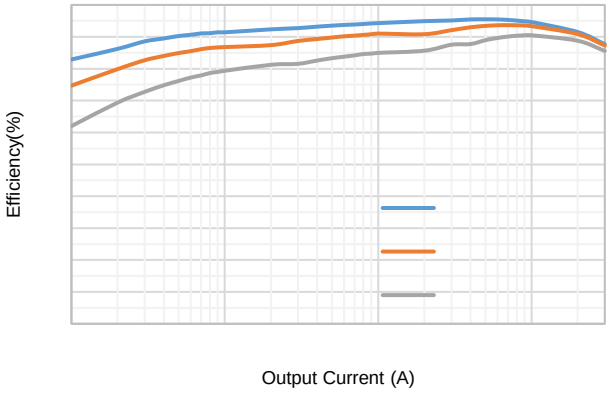
(1)
(2)

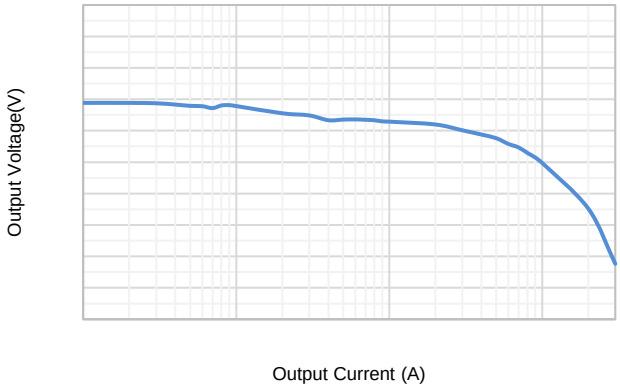
E C C E

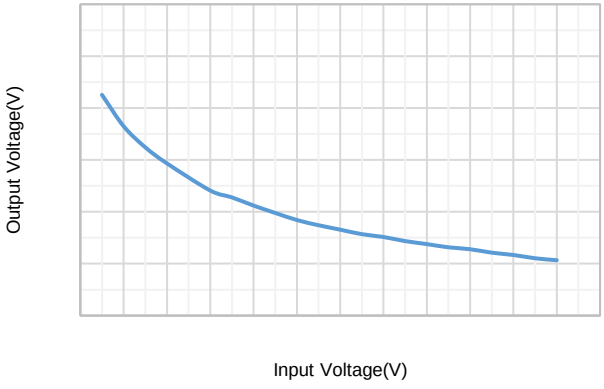
EC C E C DE D

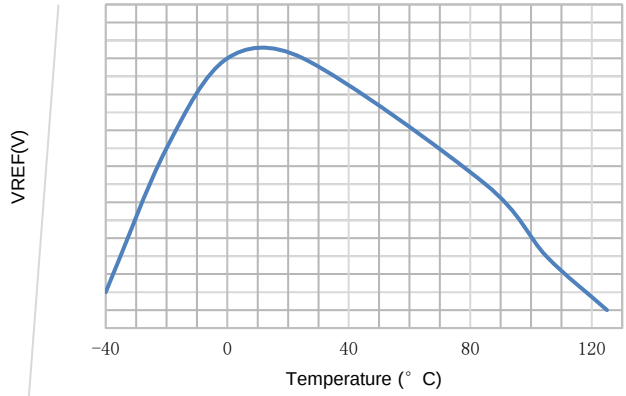
E C E C D E D


Efficiency(%)
Output Current (A)


Efficiency(%)
Output Current (A)


Output Voltage(V)
Output Current (A)

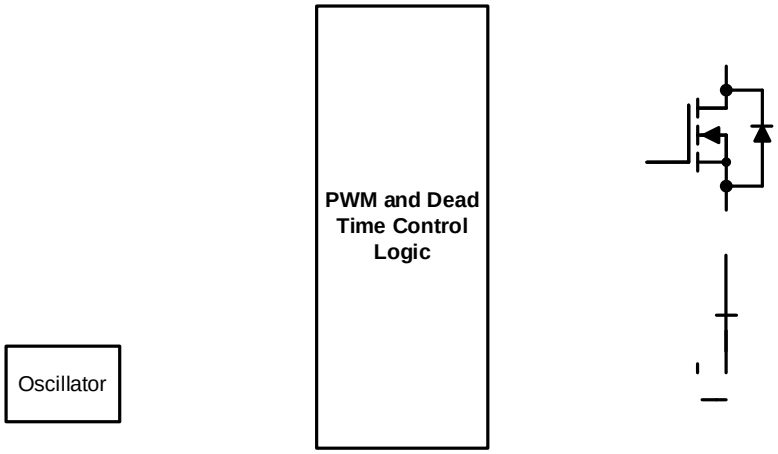

Output Voltage(V)
Input Voltage(V)

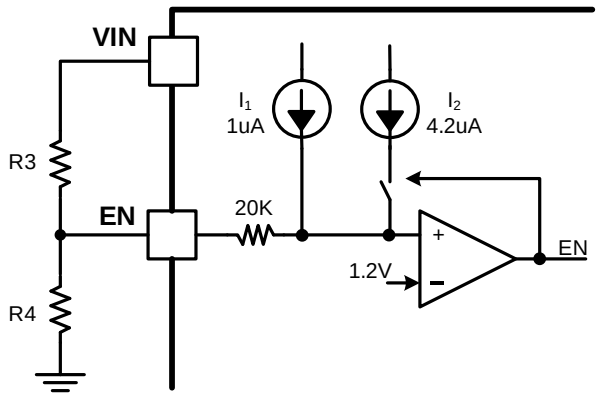

VREF(V)
−40
0
40
80
120
Temperature (° C)

F E C

EN

FB

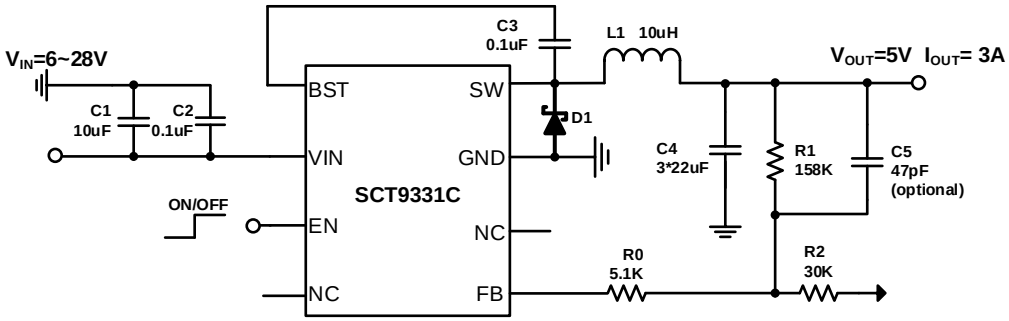




(1)

(2)

E C E



Design Parameters	Example Value
Input Voltage	12V or 24V Normal (6~28V)
Output Voltage	5V
Output Current	3A
Output voltage ripple (peak to peak)	±8mV
Switching Frequency	400kHz

(3)

$\sim$

(6)

(7)

(8)

(9)

(10)

(12)

Figure 12. Power Up, IOUT=3A

Figure 13. Power Down, IOUT=3A

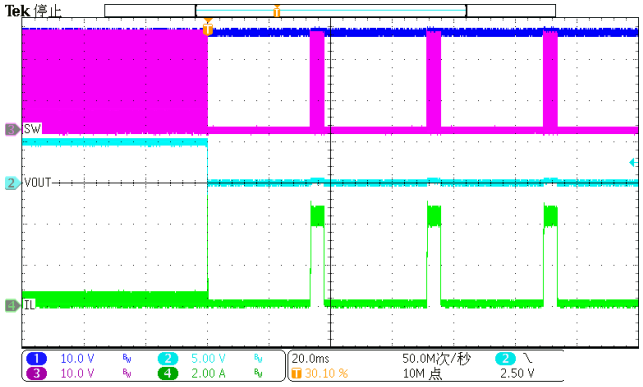


Figure 18. Over Current Protection(0A to hard short)

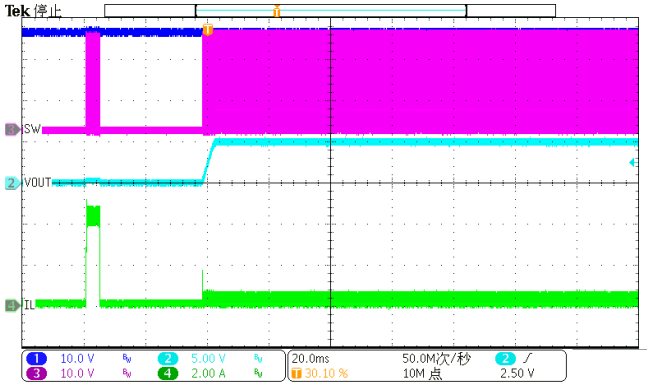


Figure 19. Over Current Release (hard short to 0A)

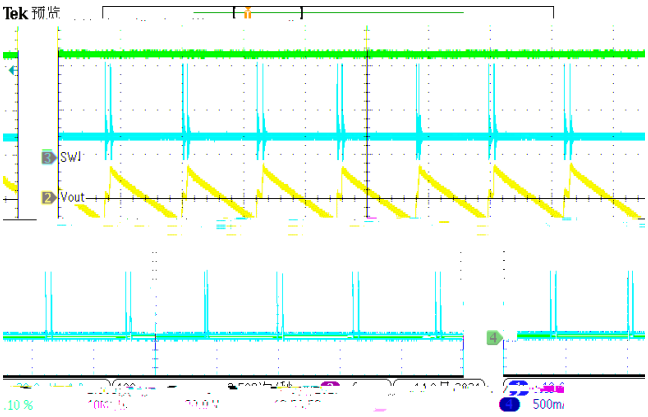


Figure 20. Output Ripple (Iload=10mA)

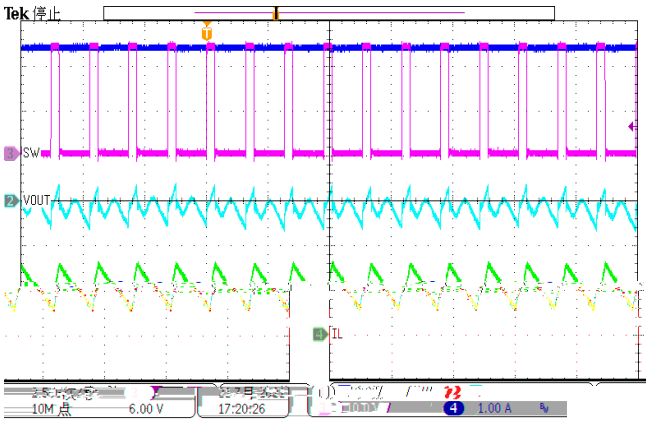


Figure 21. Output Ripple (Iload=1A)

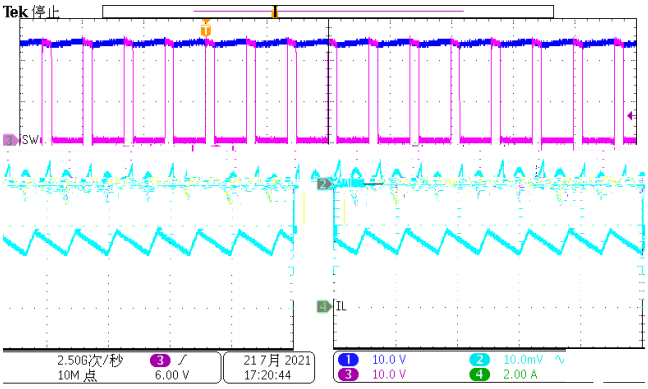


Figure 22. Output Ripple (Iload=3A)

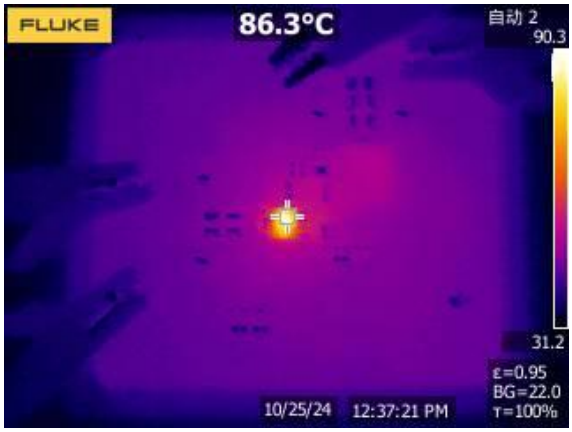


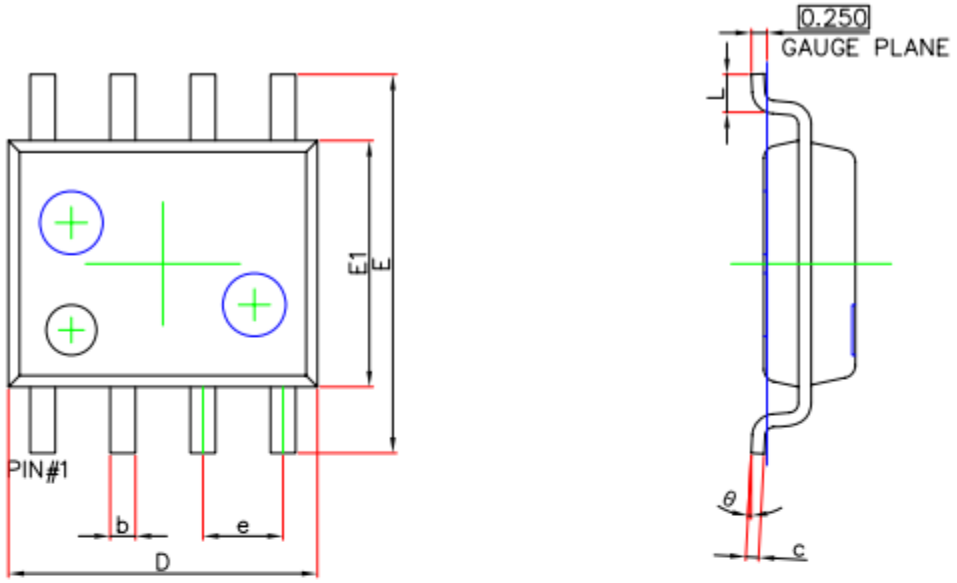
Figure 23. Thermal, 12VIN, 5Vout, 3A

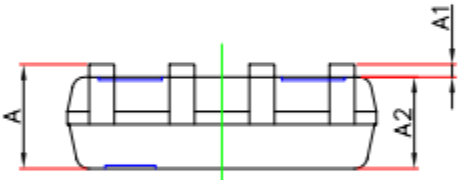
1.

2.
3.

4.

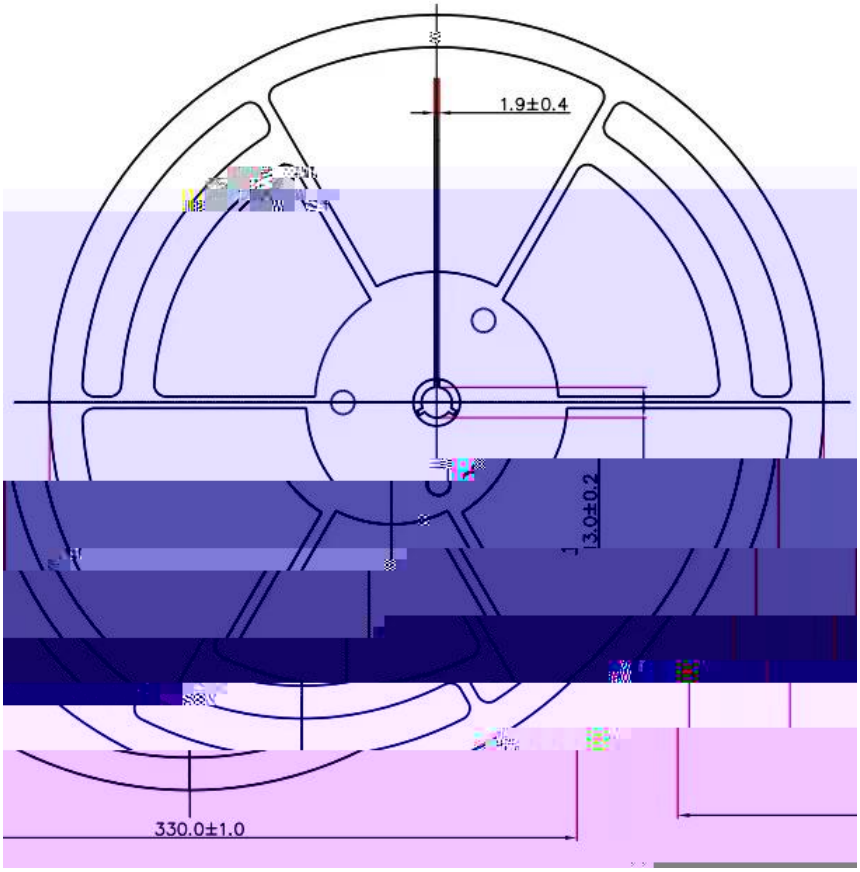
C E

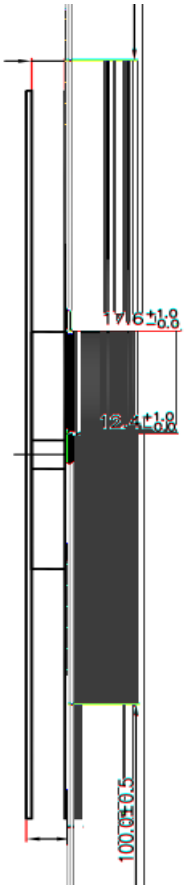


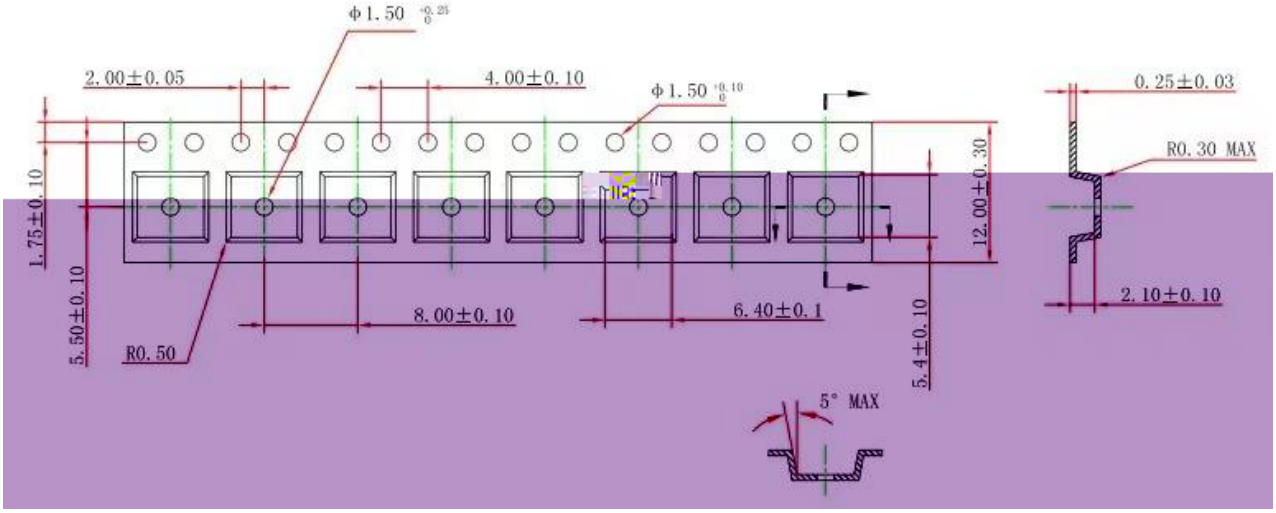


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	1.450	1.750	0.057	0.069
A1	0.100	0.250	0.004	0.010
A2	1.350	1.550	0.053	0.061
b	0.330	0.510	0.013	0.020
c	0.170	0.250	0.007	0.010
D	4.700	5.100	0.185	0.201
E	5.800	6.200	0.228	0.244
E1	3.800	4.000	0.150	0.157
e	1.270(BSC)		0.050(BSC)	
L	0.400	1.270	0.016	0.050
θ	0°	8°	0°	8°

E C C E


1.9±0.4
13.0±0.2
330.0±1.0


100.0±0.5


Φ1.50 +0.25 0
2.00±0.05
4.00±0.10
Φ1.50 +0.10 0
0.25±0.03
R0.30 MAX
1.75±0.10
5.50±0.10
12.00±0.30
8.00±0.10
6.40±0.1
5.4±0.10
2.10±0.10
R0.50
5° MAX