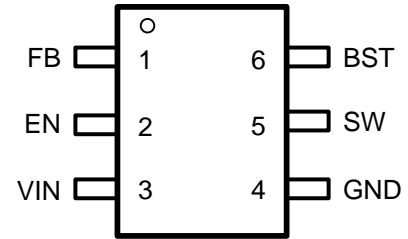


D5 FH BI A6 F	D5 5 A5F B	D5 5 G F DH CB
1)		

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

DESCRIPTION	MIN	MAX	UNIT
BST	-0.3	40	V
VIN, SW, EN	-0.3	34	V
FB	-0.3	5.5	V
Operating junction temperature ⁽²⁾	-40	125	°C
Storage temperature T _{STG}	-65	150	°C



Top View: TSOT23-6L, Plastic

(1)

(2)

B5 A	BC	DB : I B H CB
FB	1	Buck converter output feedback sensing voltage. Connect a resistor divider from VOUT to FB to set up output voltage. The device regulates FB to the internal reference of 0.8V typical.
EN	2	Enable logic input. Floating the pin enables the device. This pin supports high voltage input up to VIN supply to be connected VIN directly to enable the device automatically. The device has precision enable thresholds 1.18V rising / 1.1V falling for programmable UVLO threshold and hysteresis.
VIN	3	Power supply input. Must be locally bypassed.
GND	4	Power ground. Must be soldered directly to ground plane.
SW	5	Switching node of the buck converter.

BST	6	Power supply for the high-side power MOSFET gate driver. Must connect a 0.1uF or greater ceramic capacitor between BST pin and SW node.
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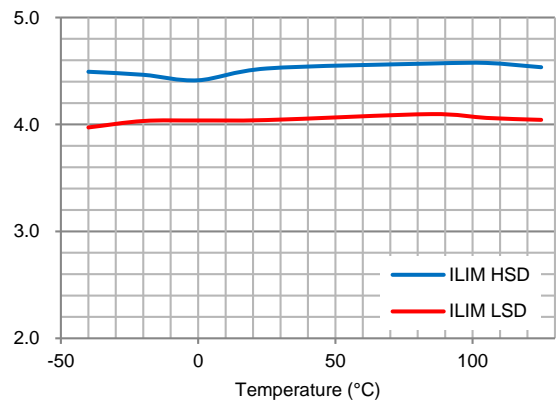
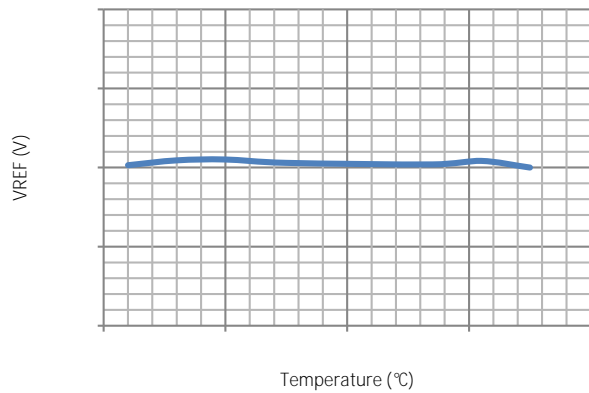
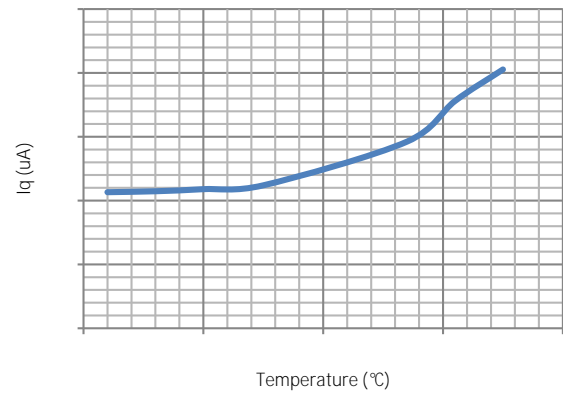
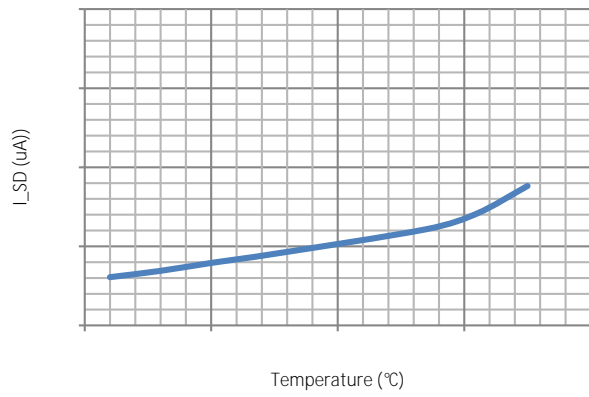
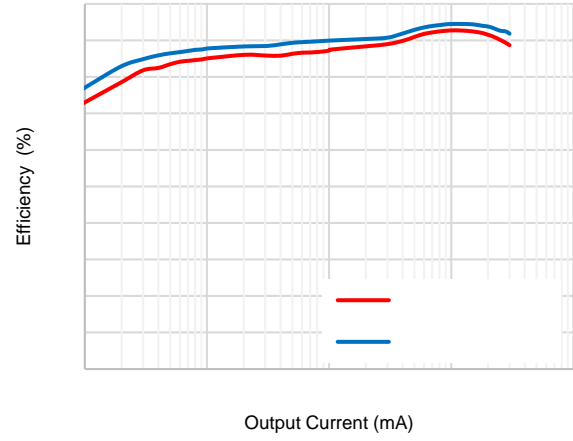
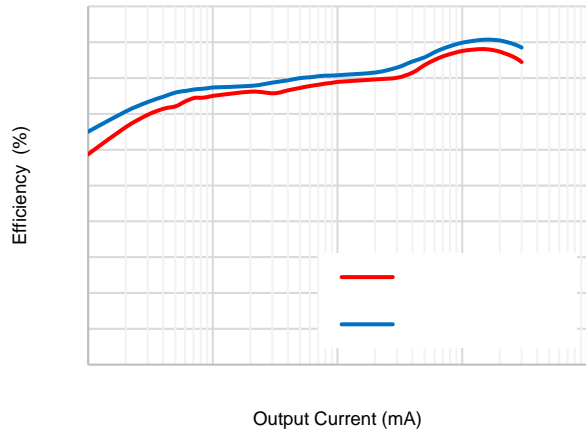
D5 F5 A H F	: B H C B	A B	A5L	I B H

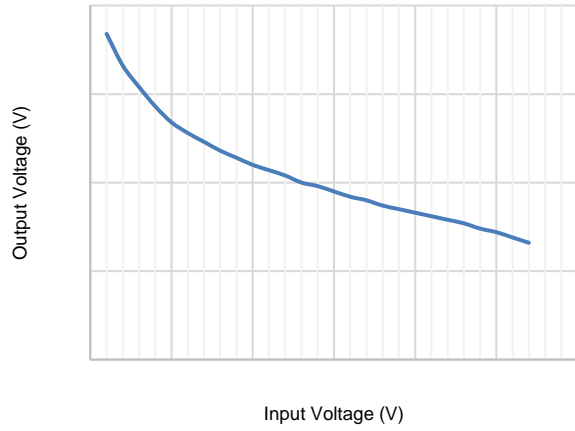
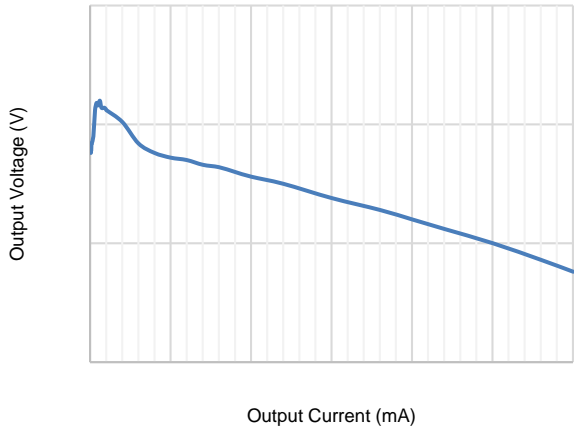
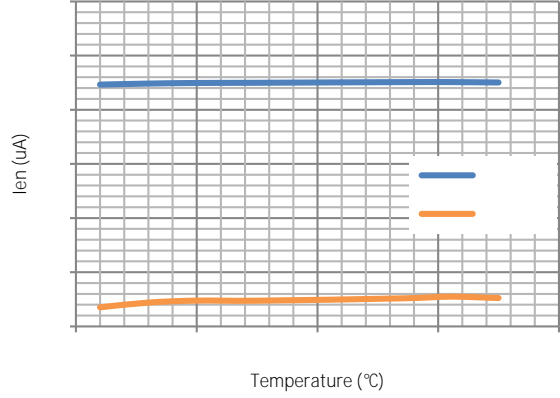
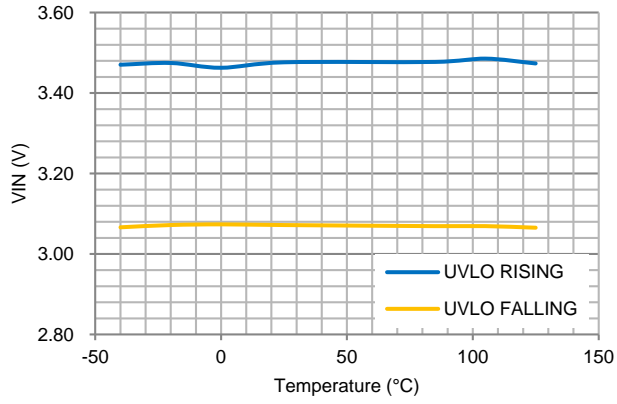
D5 F5 A H F	: B H C B	A B	A5L	I B H

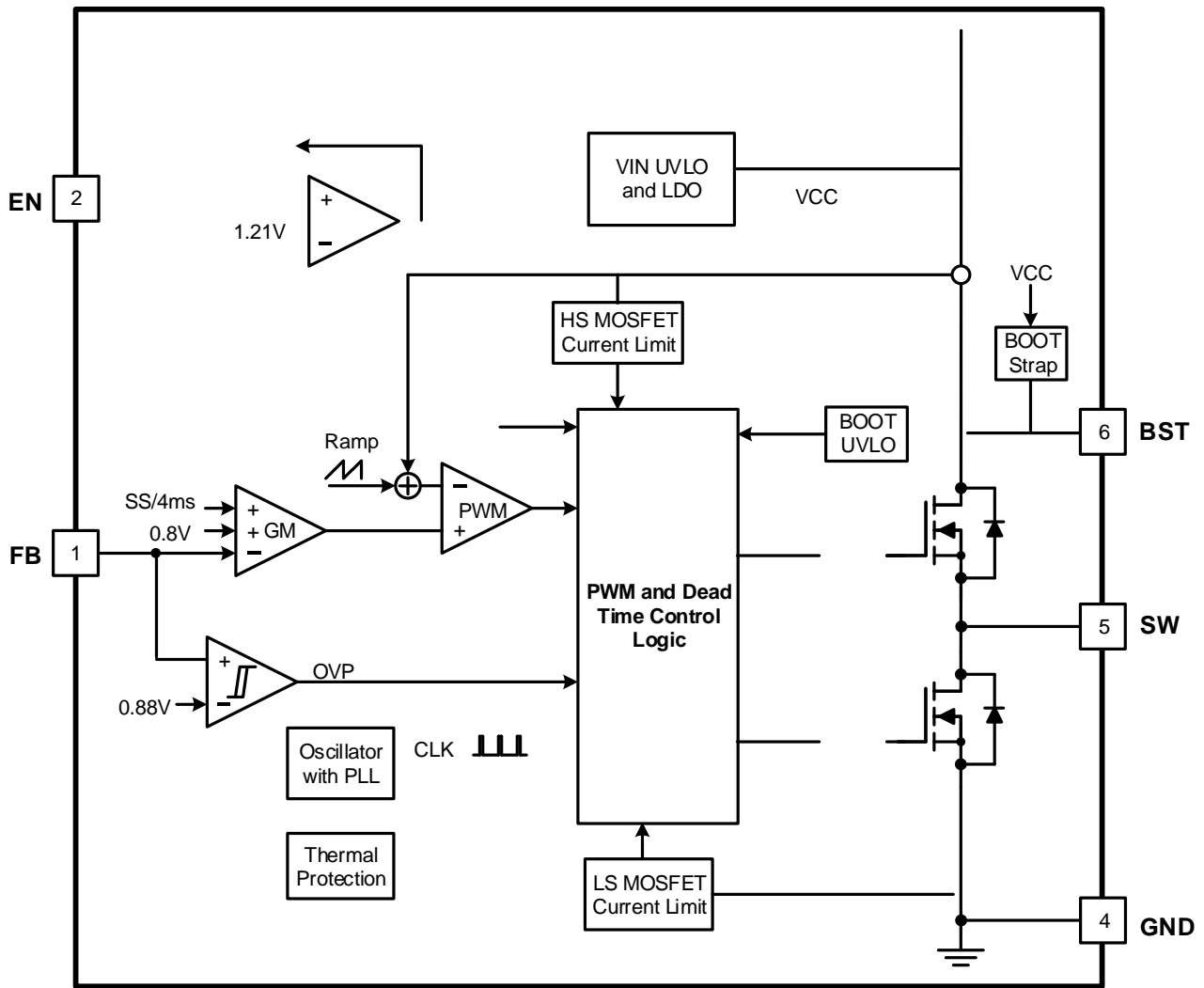
(1)

G H

GMA6C	D5F5 A H F	H GH CB HCB	A B HMD A5L	I B H
: YXVUW U X	5	Y		
Y	5			
G W	: Y Y W	5		
G	GU H Y			
D	YW			







: Y : W U⁵ W⁵ U U

G H

C Y Y

BD Y

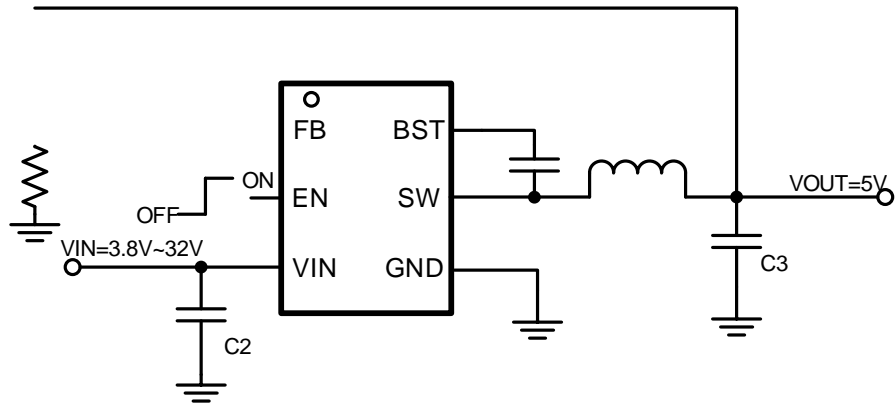
I XY U Y W I C 5 5

UVYU XGU 5

ETQq0.20150039400055004854 737.58 503.5BDC q0.00000912 0 612 792 re8W*nBT/F5 10.02 Tf1 0 0 1 54 602.2

DYU Y U X ⁵ WW A XY 5

H WJ 5 WJ



: Y ~ 5 C ~ ~ ~

Y DU U YY

Design Parameters	Example Value
Input Voltage	24V
Output Voltage	5V
Output Current	3A
Output voltage ripple (peak to peak)	±0.3V
Switching Frequency	400kHz

U UW GY⁵W

(3)

•
•
•

X W GY⁵W

x

c U UW ⁵GY⁵W

_____ (6)

•
•
•

_____ (7)

—

_____ (8)

•
•
•

_____ (9)

C : YYX: U⁵X⁵U UW GY YW

(10)

C : YYXUW F⁵Y⁵ XY GY YW

(11)

HUVY FYW Y XYX Y U ⁵Y

5 W K U Y

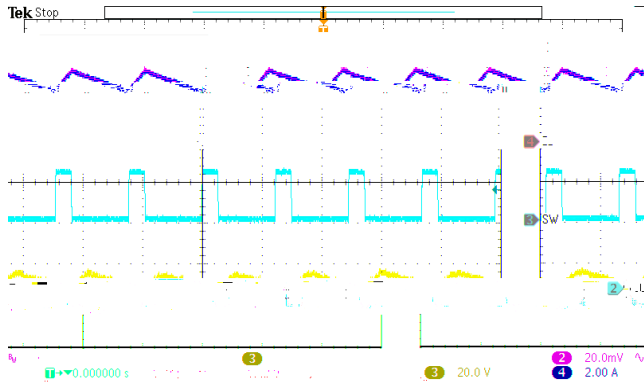


Figure 16. SW node waveform and Output Ripple
VIN=24V, IOU=3A

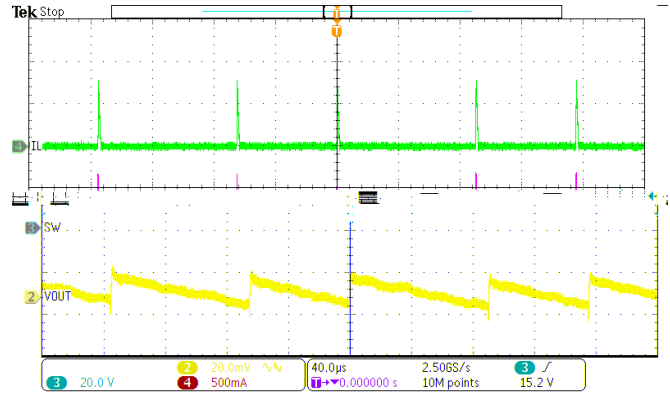


Figure 17. SW node Waveform and Output Ripple
VIN=24V, IOU=10mA

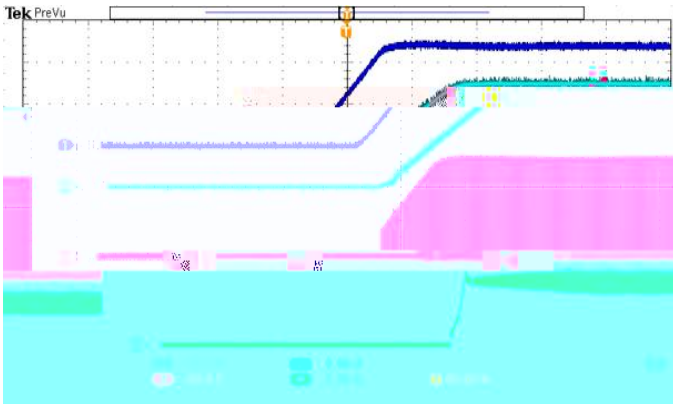


Figure 18. Power Up
VIN=24V, VOUT=5V, IOU=3A

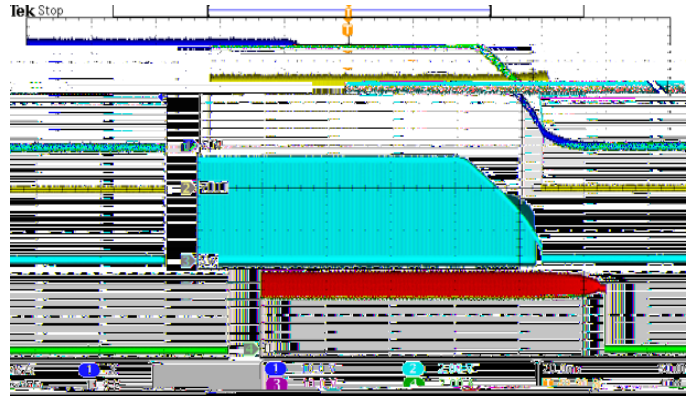


Figure 19. Power Down
VIN=24V, VOUT=5V, IOU=3A

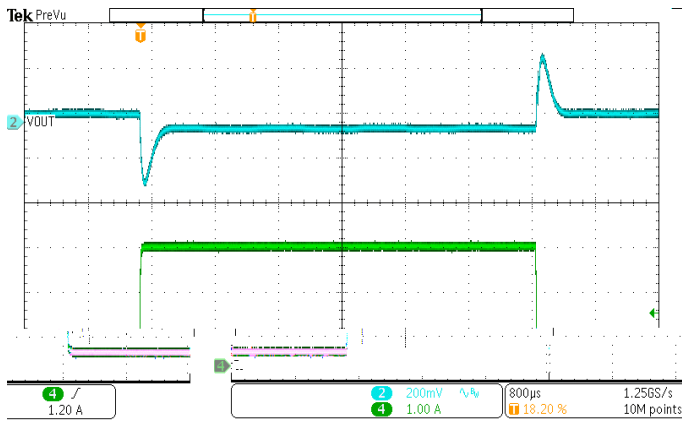


Figure 20. Load Transient
VOUT=5V, IOU=0.3A to 2.7A, SR=250mA/us

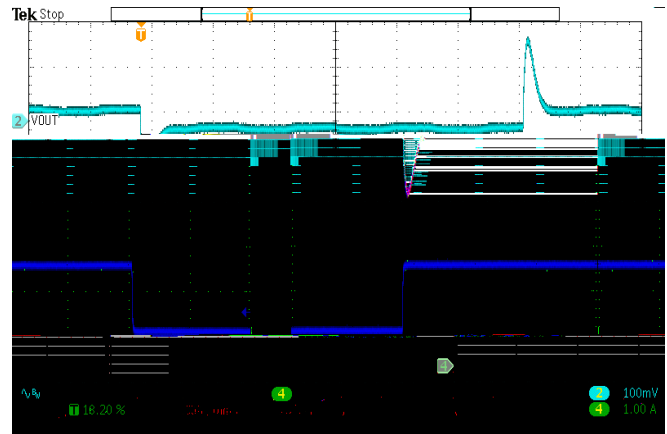
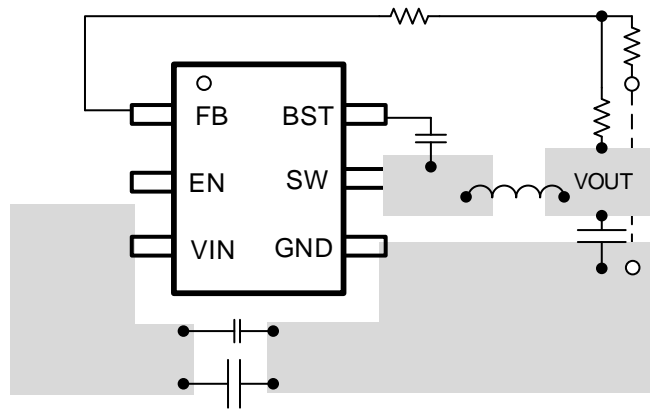


Figure 21. Load Transient
VOUT=5V, IOU=0.75A to 2.25 A, SR=250mA/us

U XY Y 5 5

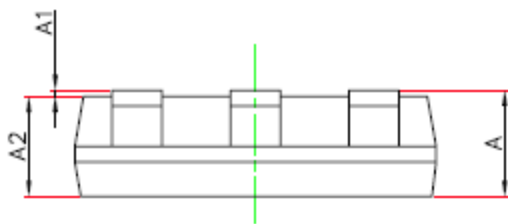
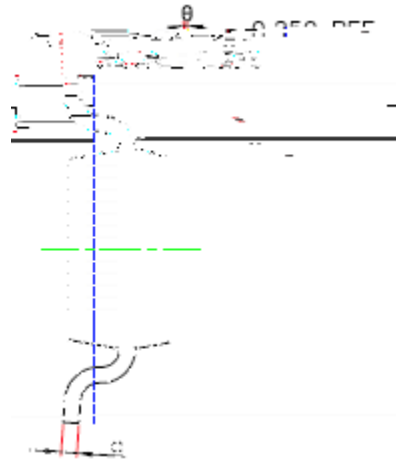
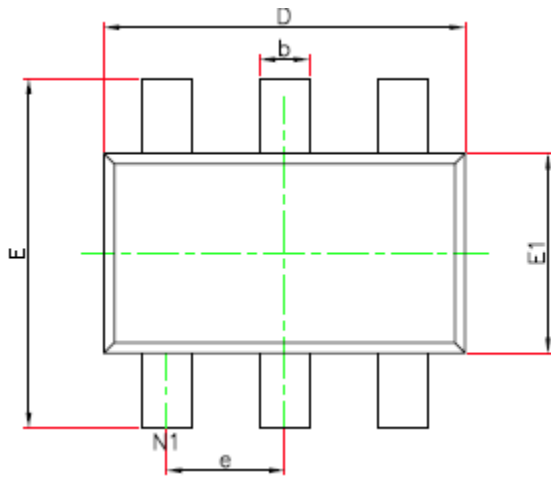


H Y U XYU

(12)

•
•

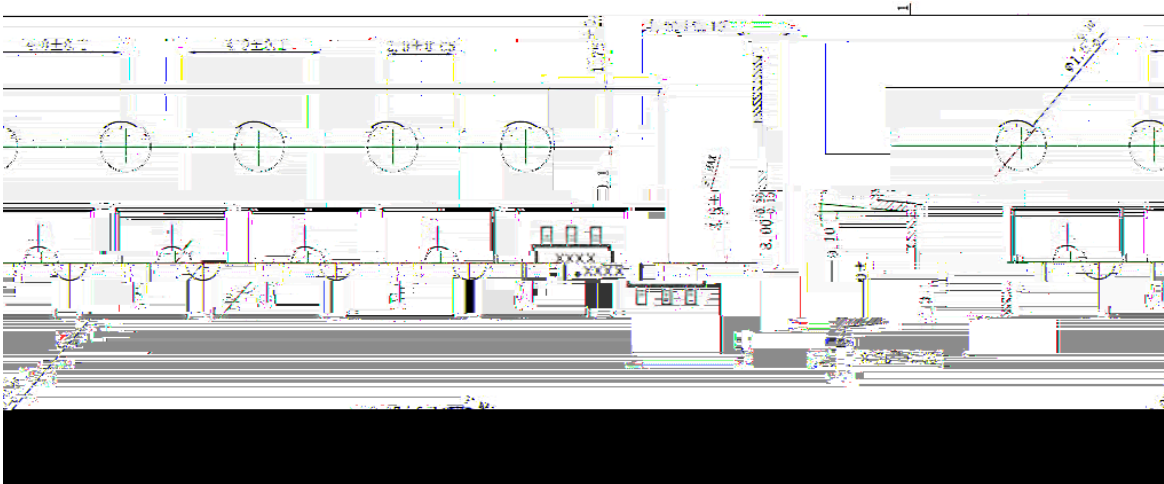
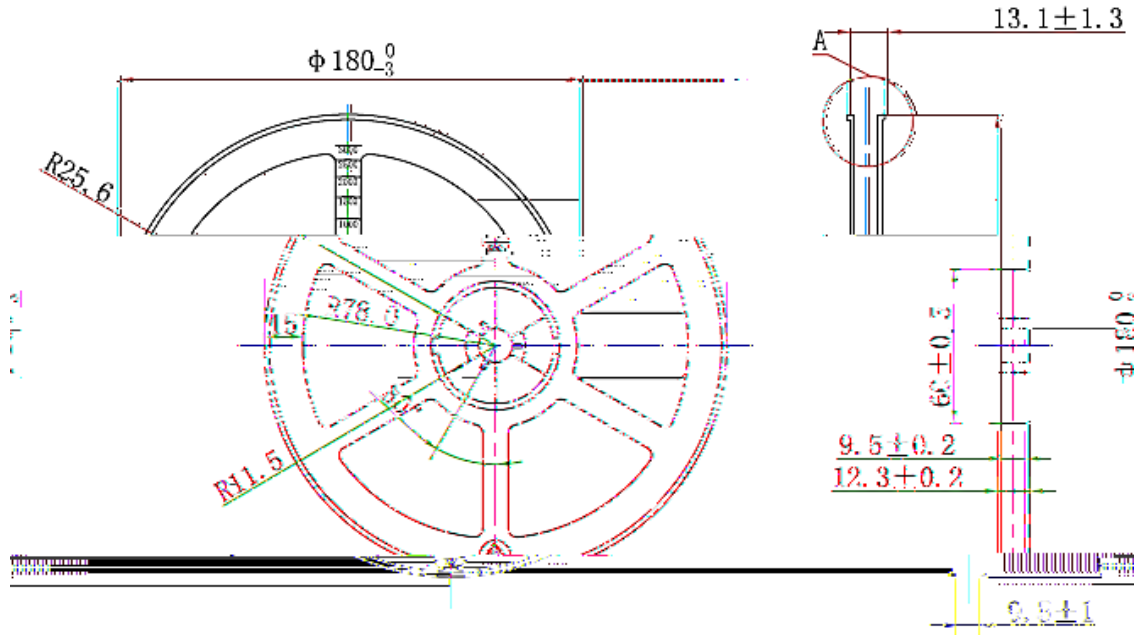
G H



BCH .

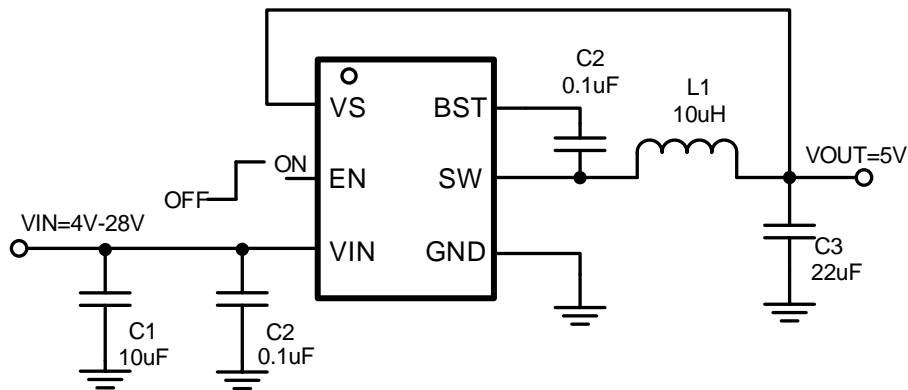
- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

SYMBOL	Unit: Millimeter		
	MIN	TYP	MAX
A	-----		1.10
A1	0.000		0.10
A2	0.70		1.00
D	2.85		2.95
E	2.65		2.95
E1	1.55		1.65
b	0.30		0.50
c	0.08		0.20
e	0.95(BSC)		
L	0.30		0.60
	0		8



: YX YW
→

PN	DESCRIPTION	COMMENTS
SCT2320 SCT2321	3.8V-32V Vin, 2A Synchronous Step-down DCDC Converter with EMI Reduction	<ul style="list-style-type: none"> • 500KHz switching frequency • 2A Continuous output current • EMI reduction with switching node ringing-free. • Ultra-low quiescent current. High efficiency PFM at light load (SCT2320) • Frequency Spread Spectrum (SCT2320) • Fixed PWM mode for lower output ripple (SCT2321)
SCT2323 SCT2325	3.8V-32V Vin, 2A Synchronous Step-down DCDC Converter with EMI Reduction	<ul style="list-style-type: none"> • 1100KHz switching frequency • Fixed output 3.3V (SCT2323)/5V (SCT2325) • 2A Continuous output current • EMI reduction with switching node ringing-free. • Ultra-low quiescent current. High efficiency PFM at light load • Frequency Spread Spectrum
SCT2331	3.8V-32V Vin, 3A Synchronous Step-down DCDC Converter with EMI Reduction	<ul style="list-style-type: none"> • 400KHz switching frequency • 3A Continuous output current • EMI reduction with switching node ringing-free. • Fixed PWM mode for lower output ripple



BCH .