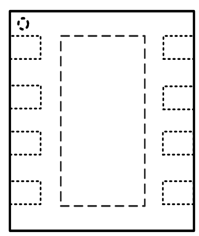
2.2V-5.5V Vin, 1A, 8uA I_Q, Low-Dropout Regulator

Kn an ha ar e_a	K pd p Rklp ca	L _g ca	L _g ca I nge c	LEJO	I OH	Pn olkrpl a e(M peu



O P3-, -, =, , M P N

J=I A	J=I A	LEJ BQJ PEKJ

L=N=I APAN	ABEJEPEKJ	I EJ	I =T	QJEP

L=N=I APAN	ABEJEPEKJ	I EJ	I =T	QJEP

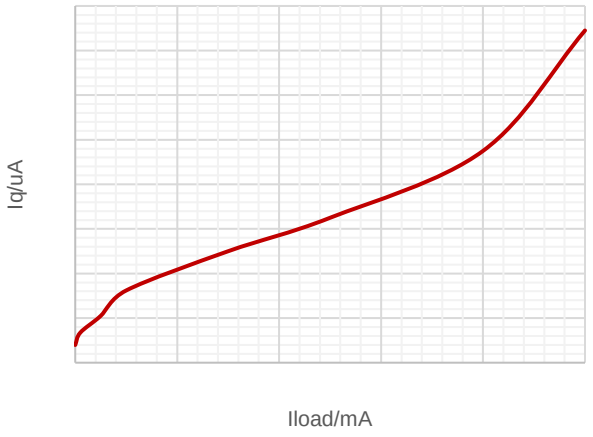
(1)

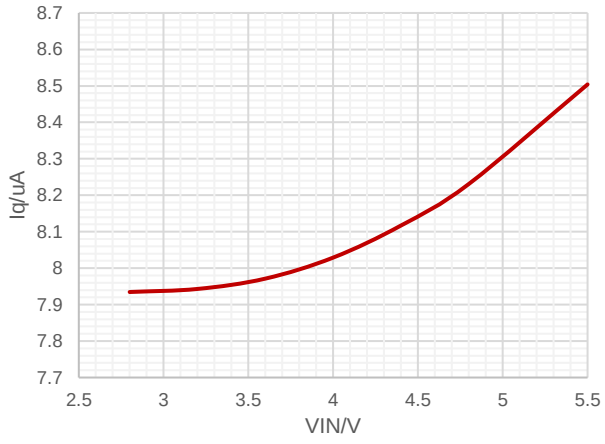
(2)

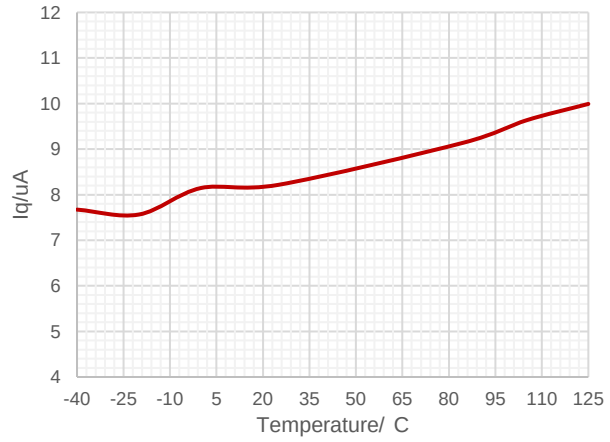
L=N=I APAN	ABEJEPEKJ	I EJ	I =T	QJEP

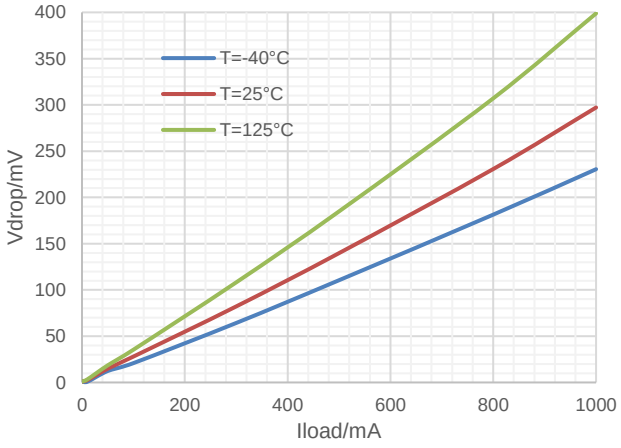
(1)
(2)

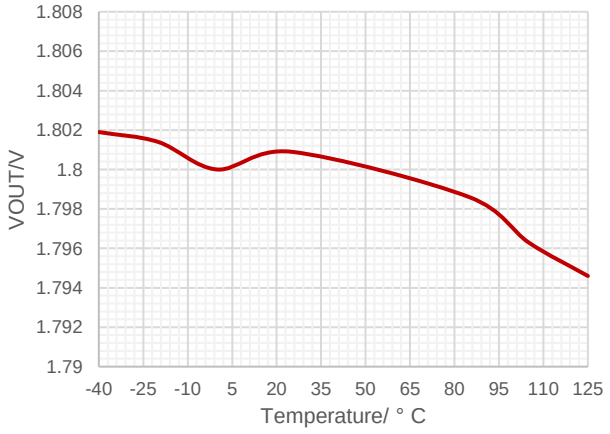
OUI KH	L=N=I APAN	PAOP KJ EPEKJ	I EJ PUL I =T	QJEP

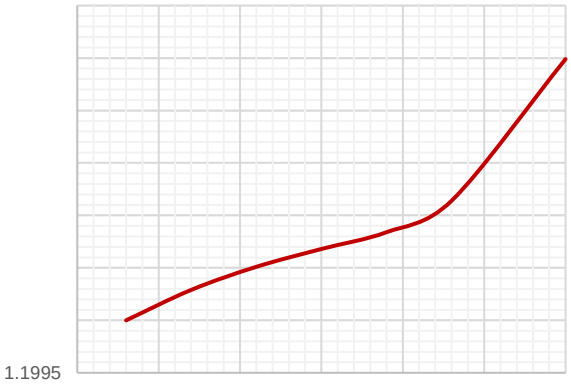

Iq/uA
Iload/mA


8.7
8.6
8.5
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
Iq/uA
2.5
3
3.5
4
4.5
5
5.5
VIN/V

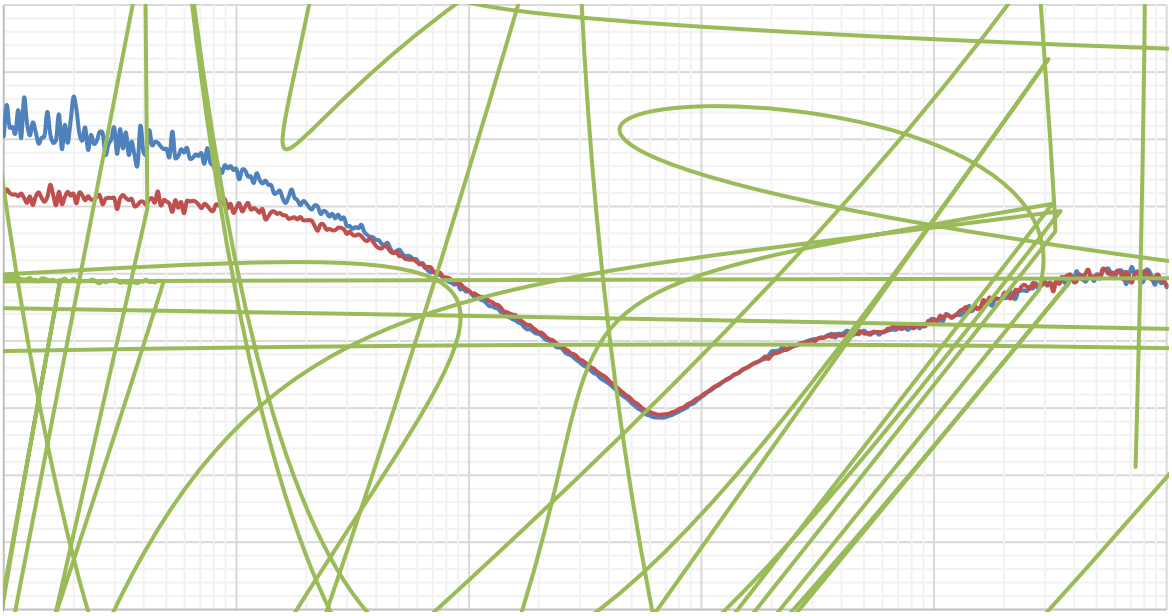

12
11
10
9
8
7
6
5
4
Iq/uA
-40
-25
-10
5
20
35
50
65
80
95
110
125
Temperature/ C

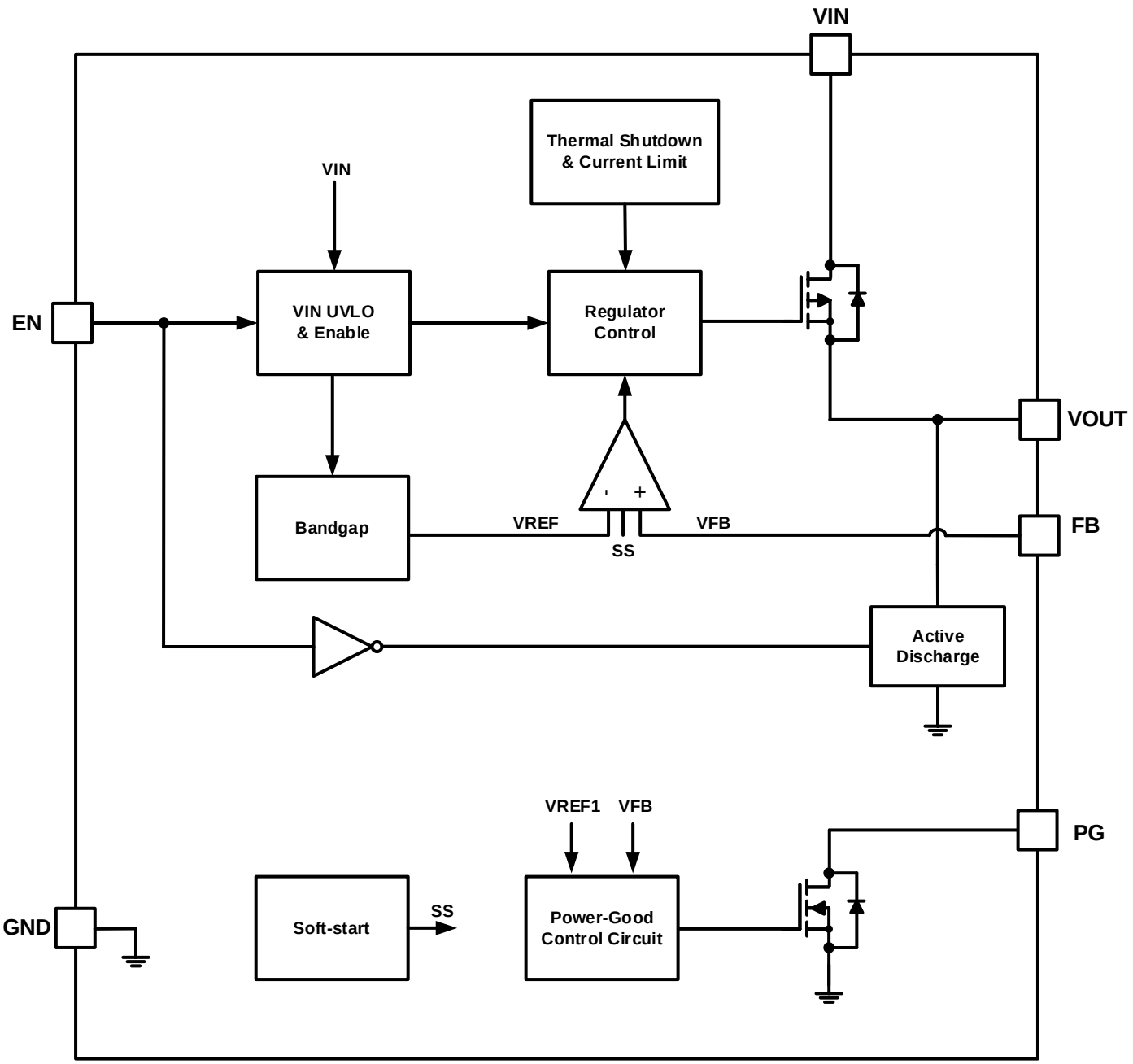

400
350
300
250
200
150
100
50
0
Vdrop/mV
T=-40°C
T=25°C
T=125°C
0
200
400
600
800
1000
Iload/mA

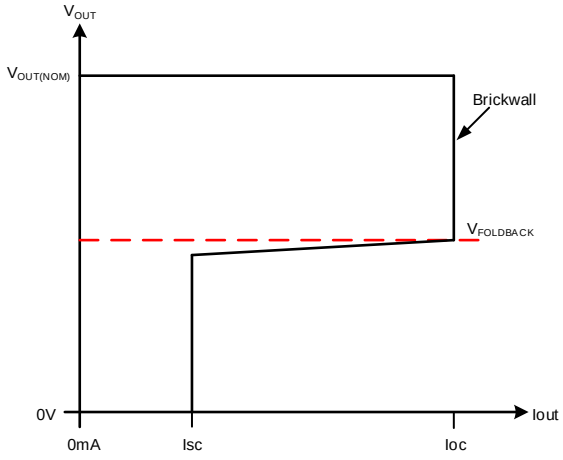

1.808
1.806
1.804
1.802
1.8
1.798
1.796
1.794
1.792
1.79
VOUT/V
-40
-25
-10
5
20
35
50
65
80
95
110
125
Temperature/ ° C


1.1995

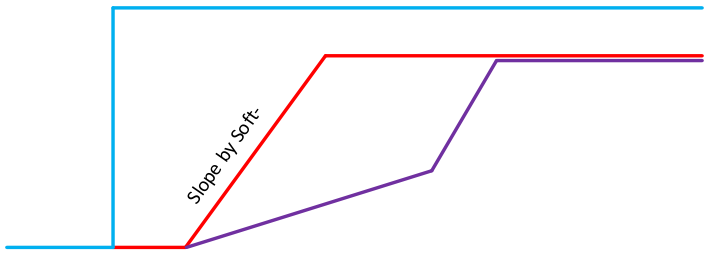
O P3- , - , = , , M Oaneao




VIN
Thermal Shutdown
& Current Limit
VIN
EN
VIN UVLO
& Enable
Regulator
Control
VOUT
Bandgap
VREF
VFB
SS
FB
Active
Discharge
VREF1
VFB
PG
GND
Soft-start
SS
Power-Good
Control Circuit

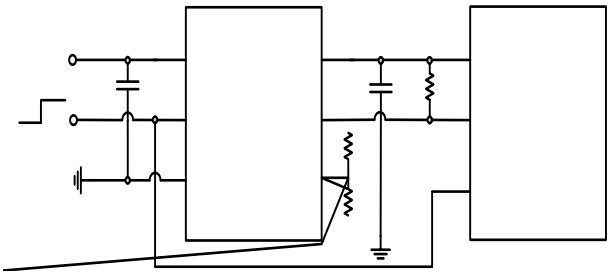


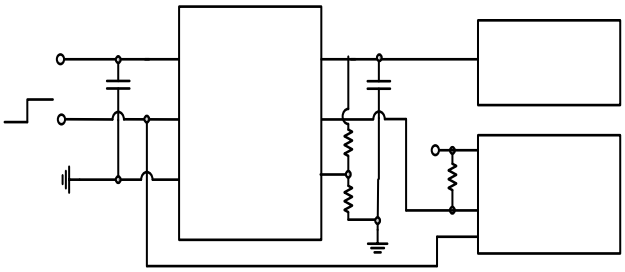
E pan hOkbp)Op np

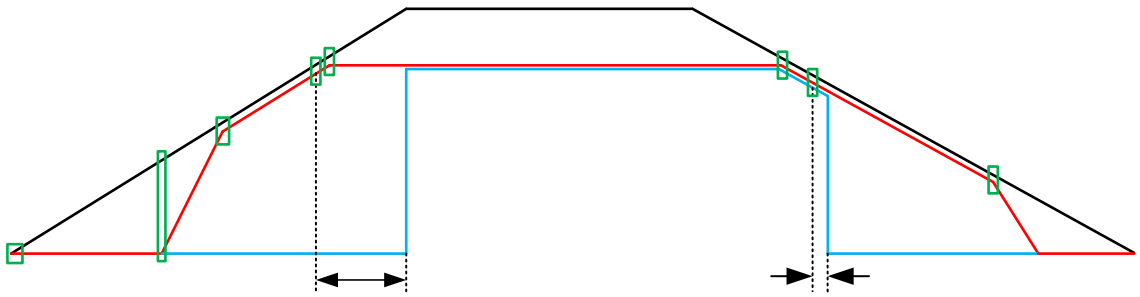


Lks an)Ckk Lks an)Ckk ah u

≥

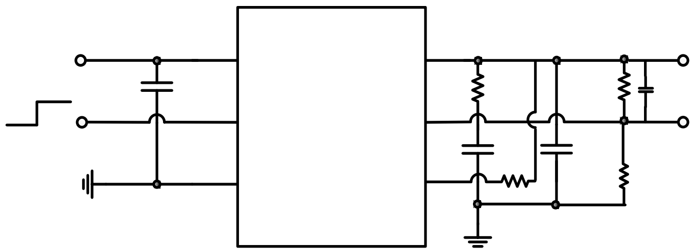






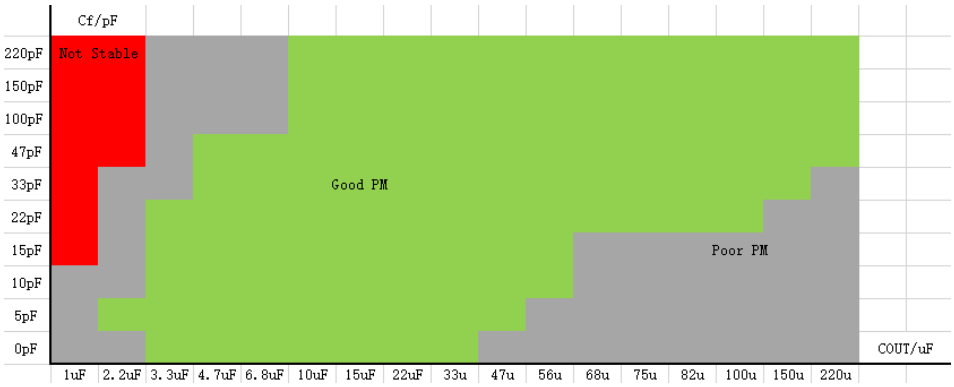
Pdari hOd p ks

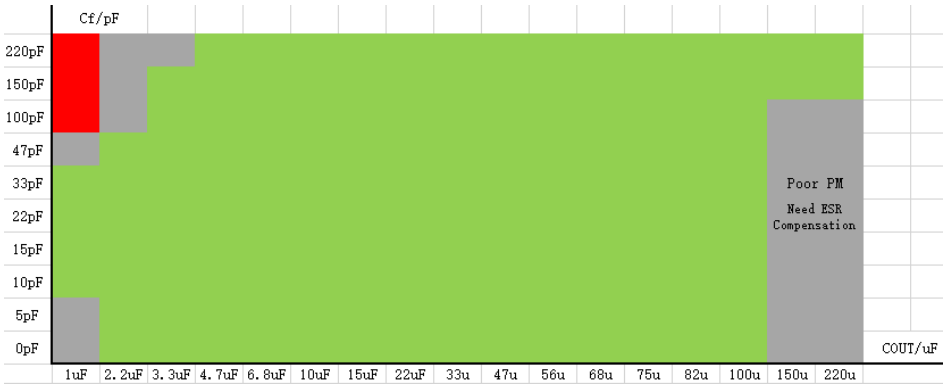
Pul e_ h l l he_ pdk /



aoec L n i apamo

aoec L n i apamo	At i l ha R h a

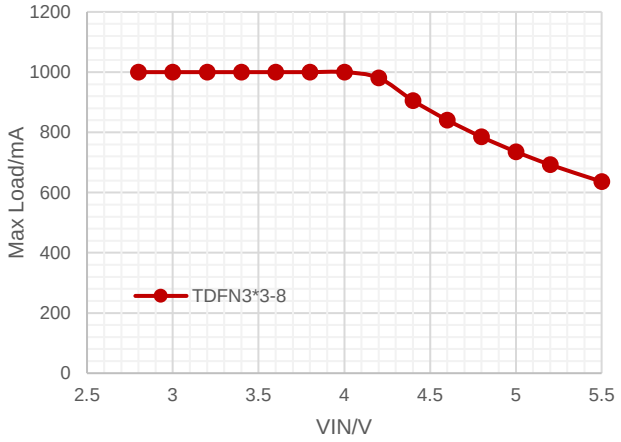

Cf/pF
220pF
150pF
100pF
47pF
33pF
22pF
15pF
10pF
5pF
0pF
Not Stable
Good PM
Poor PM
COUT/uF
1uF
2.2uF
3.3uF
4.7uF
6.8uF
10uF
15uF
22uF
33u
47u
56u
68u
75u
82u
100u
150u
220u

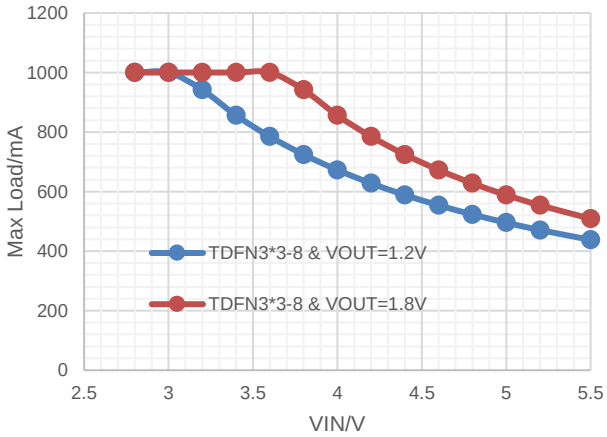

Cf/pF
220pF
150pF
100pF
47pF
33pF
22pF
15pF
10pF
5pF
0pF
Poor PM
Need ESR
Compensation
COUT/uF
1uF
2.2uF
3.3uF
4.7uF
6.8uF
10uF
15uF
22uF
33u
47u
56u
68u
75u
82u
100u
150u
220u

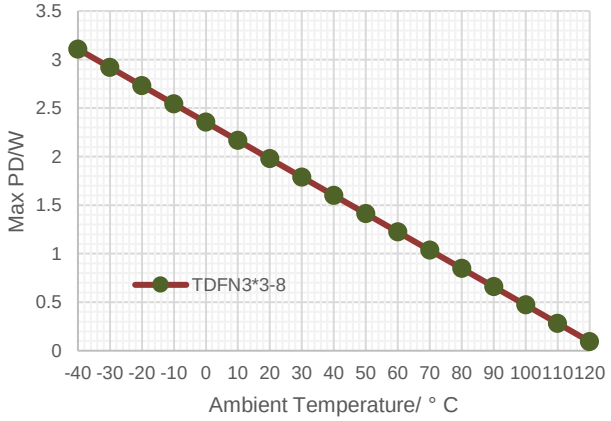
Lks an eooe pek Pdari hLardkni _a

Pdari hLardkni _a kb ebbama pL _g cao oa k ARI Paop

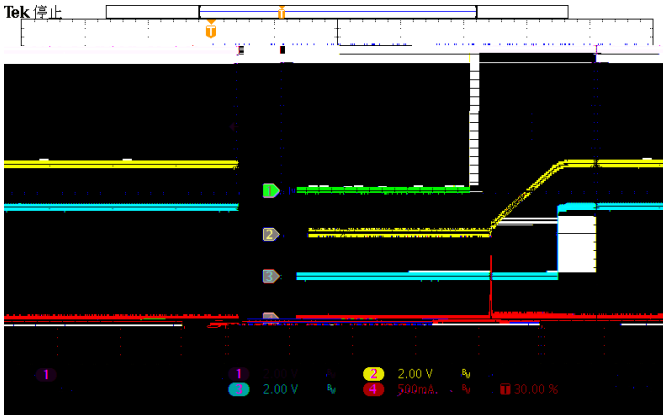
L _g ca	I t = Hhks ha L S JkpPmeccanPO (RKQP - 4R	I t = Hhks ha L S PF -. 1℃	N F= ARI ℃ S

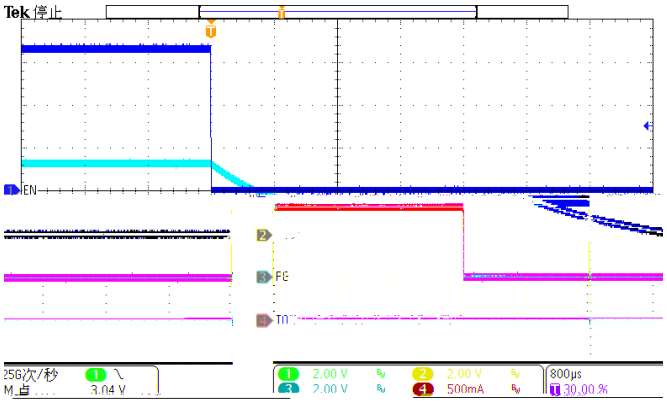

1200
1000
800
600
400
200
0
Max Load/mA
2.5
3
3.5
4
4.5
5
5.5
VIN/V
TDFN3*3-8

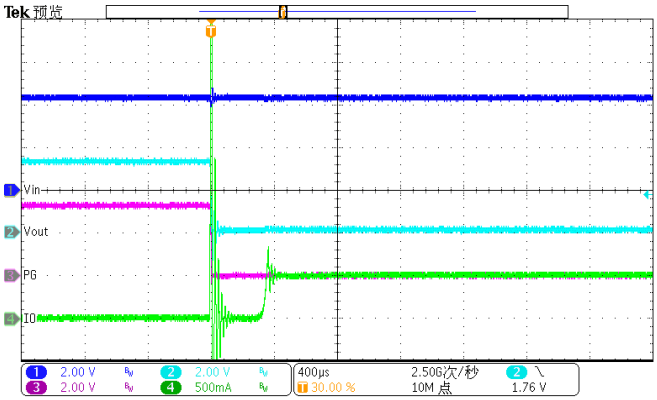

1200
1000
800
600
400
200
0
Max Load/mA
2.5
3
3.5
4
4.5
5
5.5
VIN/V
TDFN3*3-8 & VOUT=1.2V
TDFN3*3-8 & VOUT=1.8V

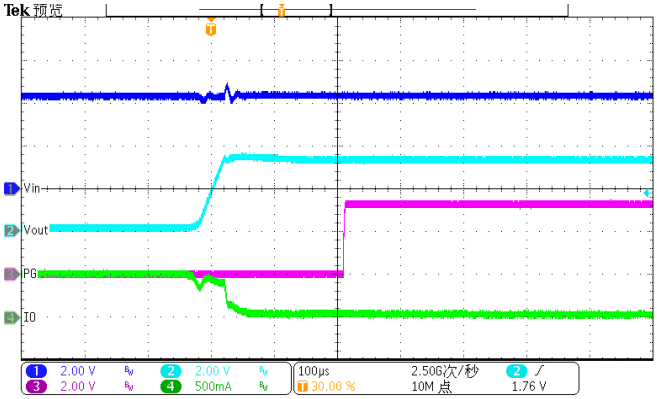

3.5
3
2.5
2
1.5
1
0.5
0
Max PD/W
-40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100110120
Ambient Temperature/ ° C
TDFN3*3-8

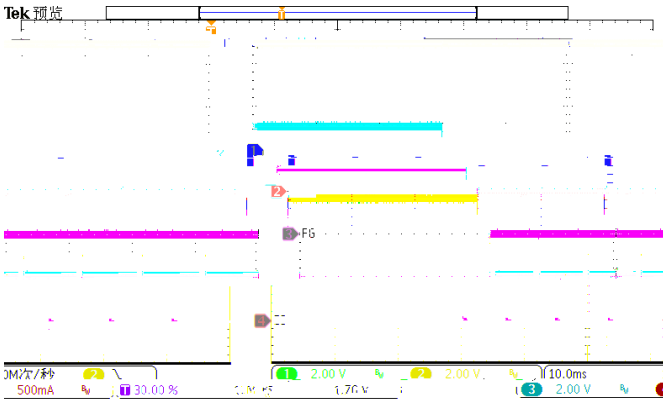
=l l he_ pak S ratkri o k pe a

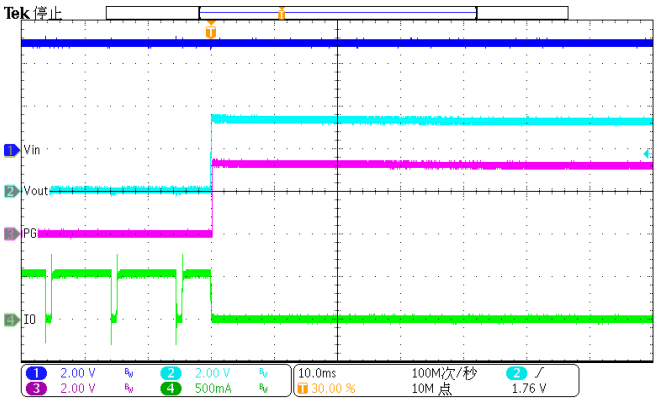












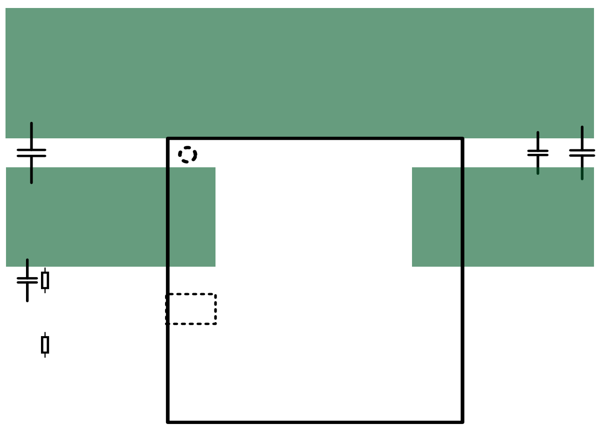
O P3-, -, =, , M Oaneao

H uk pC e ahe a

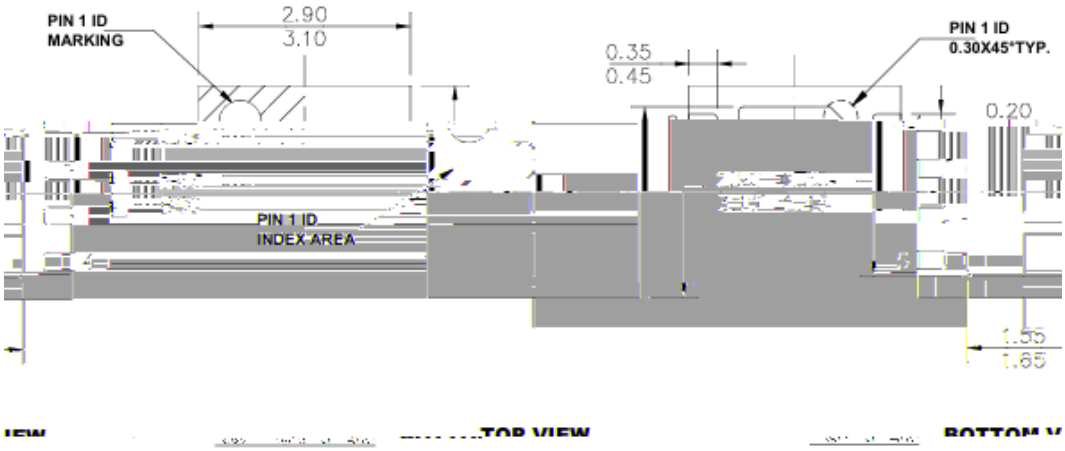
1.
2.

3.
4.

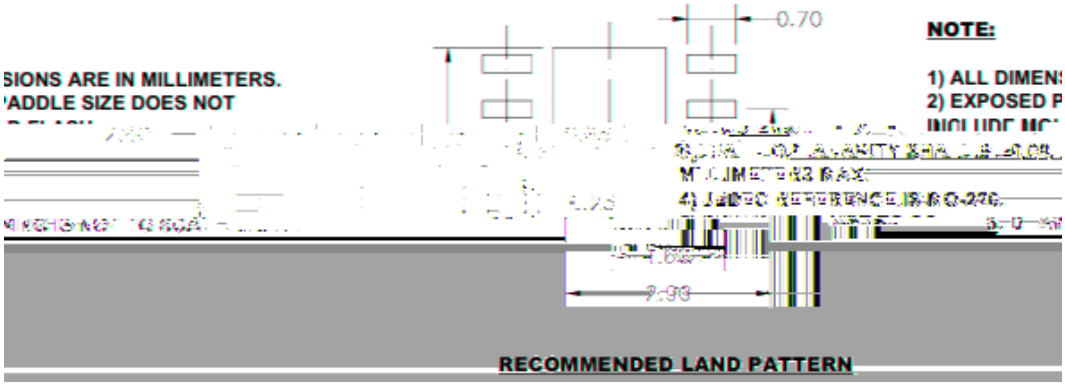
5.



O P3-, -, =, , M P N



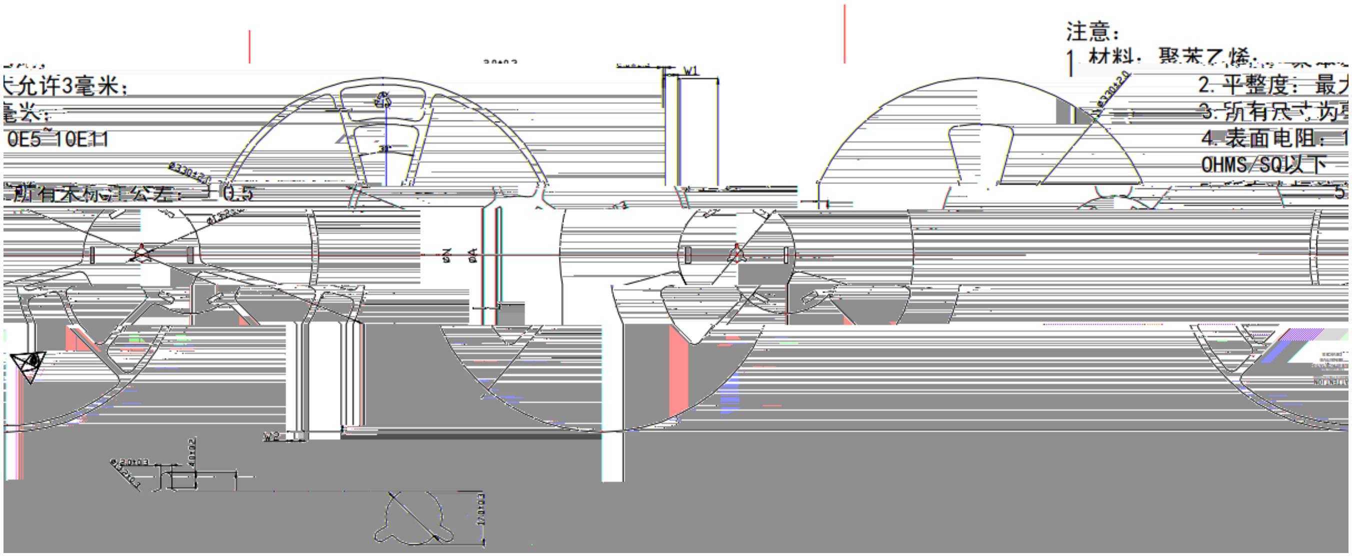
SIDE VIEW

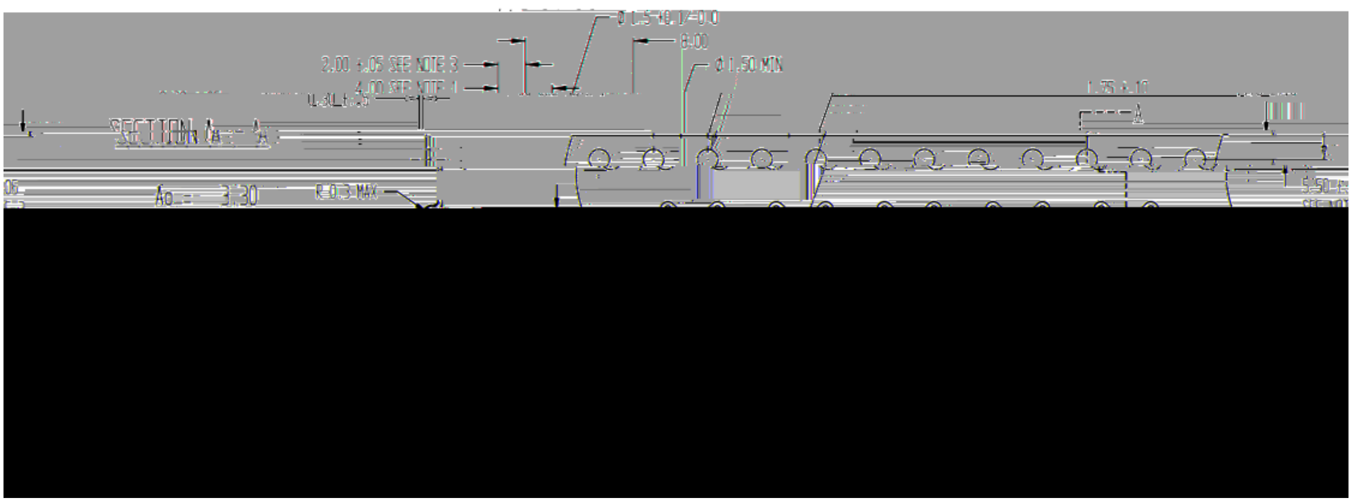


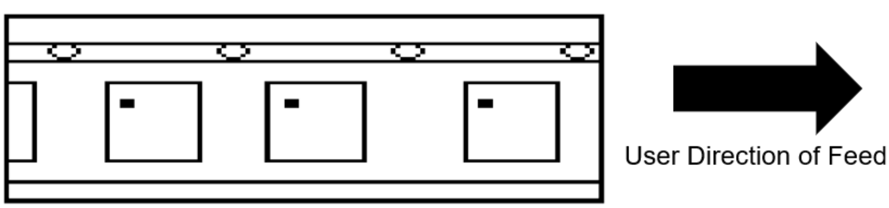
RECOMMENDED LAND PATTERN

JKPA

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


注意：
2. 平整度：最大
4. 表面电阻：
OHMS/SQ以下


8.00
Ø1.50 MIN
2.00 ±.05 SEE NOTE 3
4.00 SEE NOTE 1
SECTION A - A
Ao = 3.30


User Direction of Feed

JKPE A