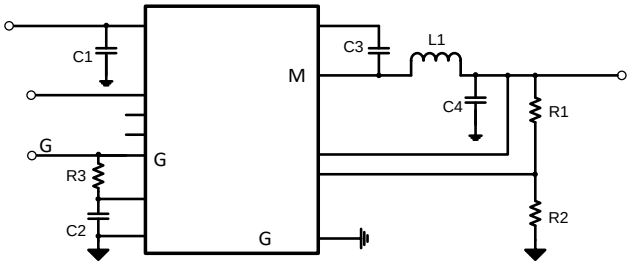
D r DE D L D g irg D rg srs D i hs rD HGHGDG sr i i

I EXYVI HI GVMTXMS RD

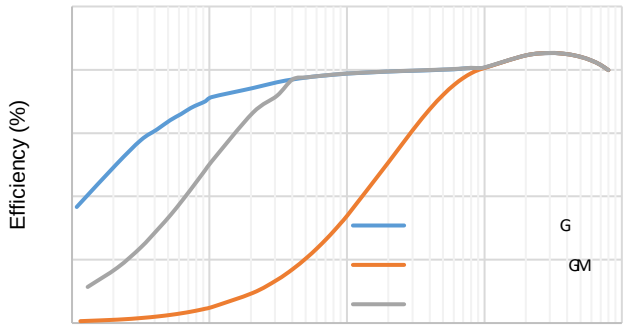
E TTPMGEXMS R D

D

X TMGE PIE TTPMGEXMS RD



4.5V-18V, Synchronous Buck Converter



Output Current (A)
Vin=12V, Vout=1V, fsw=800kHz

VI MMSRDLMXSV DD

HI MGIDSVHI VDR SV EXMSRDD

ORDERABLE DEVICE	PACKAGING TYPE	STANDARD PACK QTY	PACKAGE MARKING	PINS	PACKAGE DESCRIPTION

EF SPYXIDE MY DVEXMRKD

DESCRIPTION	MIN	MAX	UNIT

(1)

(2)

TMRIGSR MKYVEXMSRD

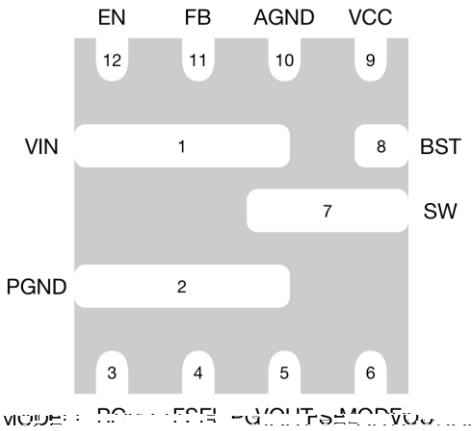


Figure 1. 12-Lead Plastic QFN

TMRDYRGXMSR D

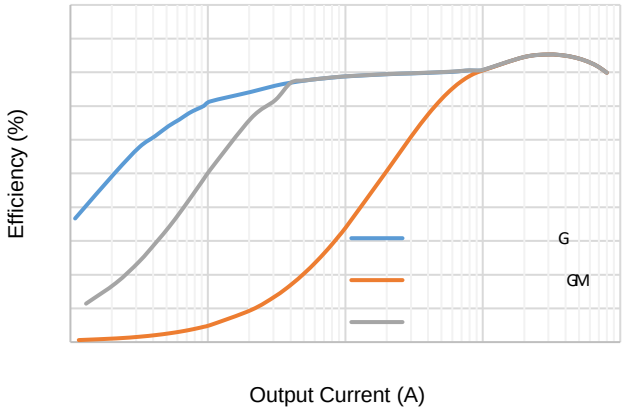
NAME	NO.	PIN FUNCTION

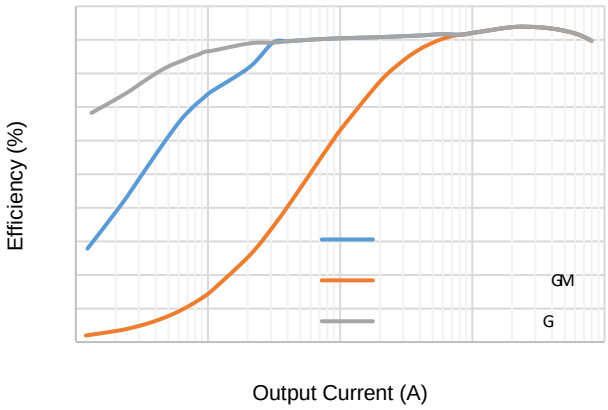
I PI GXVMGE PIDGL E VE GXI VMXMG D

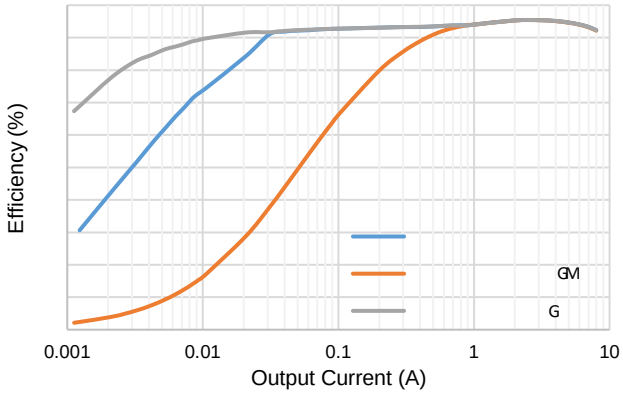
SYMBOL	PARAMETER	TEST CONDITION	MIN	TYP	MAX	UNIT
Power Supply and Output						

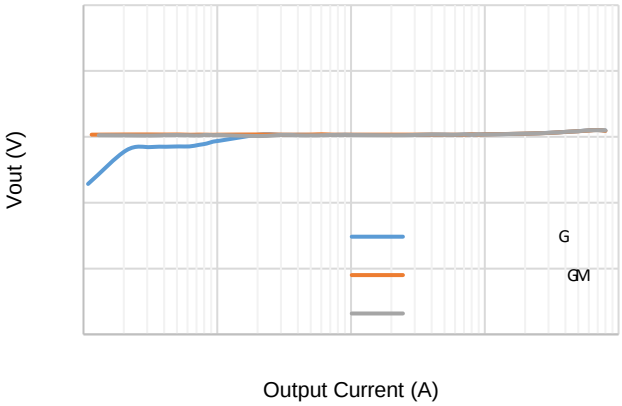
SYMBOL	PARAMETER	TEST CONDITION	MIN	TYP	MAX	UNIT

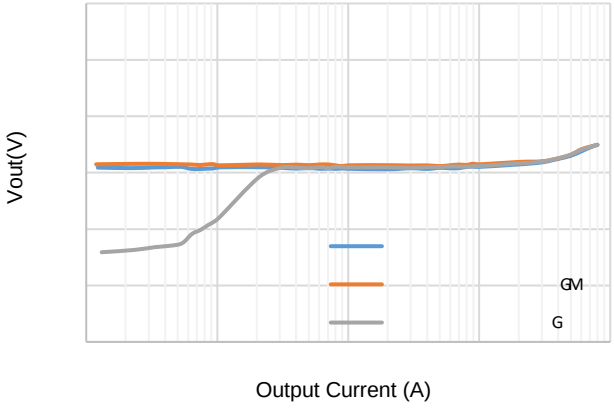
X TMGE PLGL E VE GXI VMXMG D

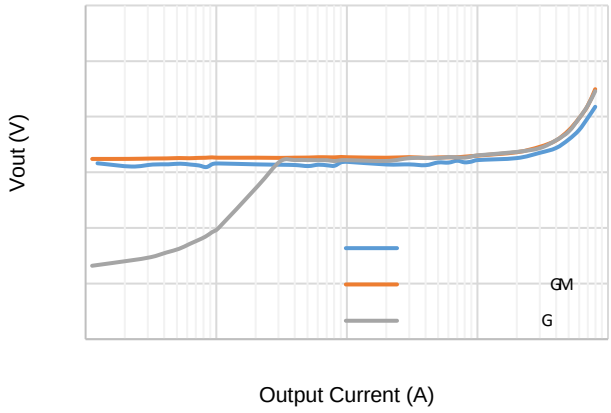








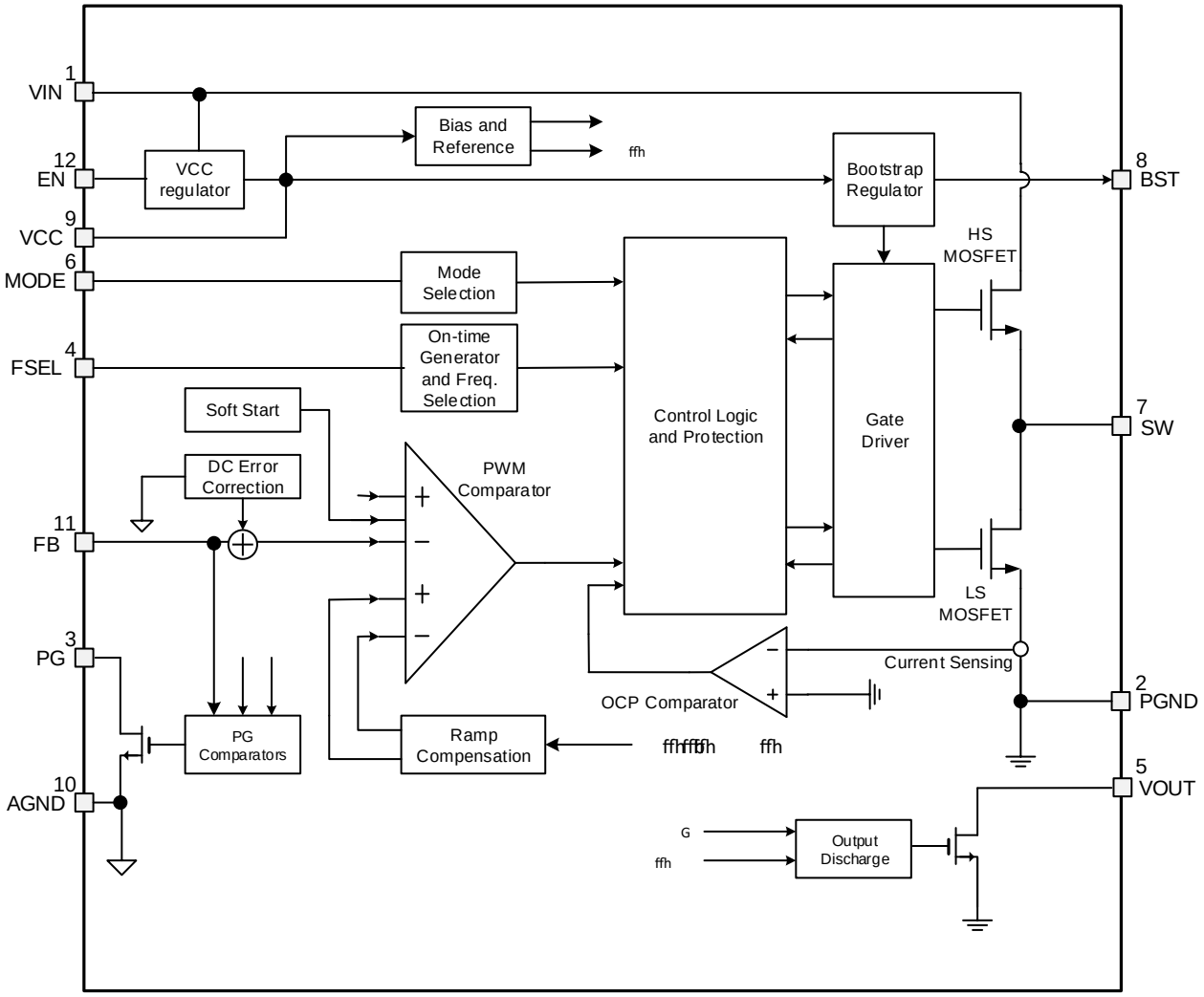




D **D**

YRGXMSRE PIF PS GOIHMKVE D

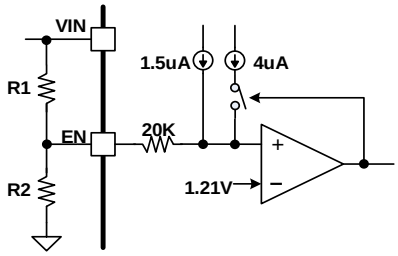
D



S TI VEXMS RD

Overview

Enable and Under Voltage Lockout Threshold



Output Voltage

Internal Soft-Start

Switching Frequency Selection

Table 1. FSEL Pin Set-up for Switching Frequency Selection

Mode Selection

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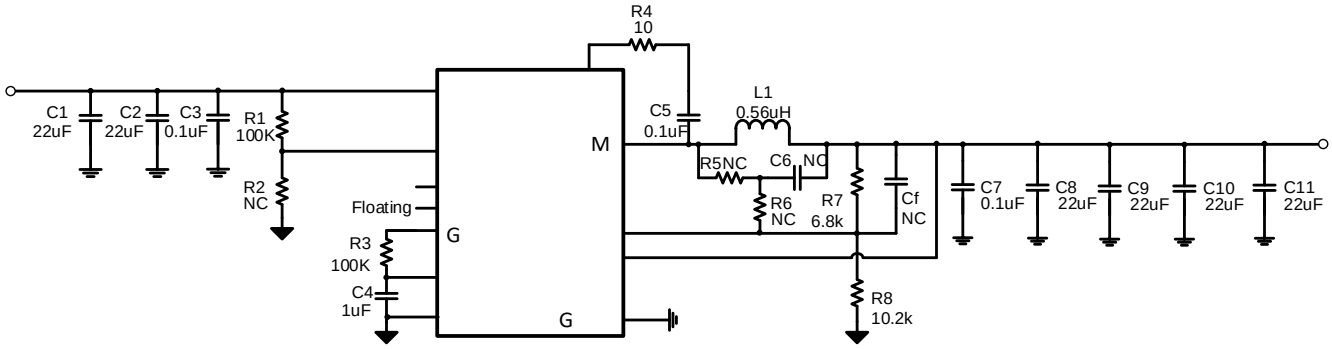
Over voltage Protection

Thermal Shutdown

E TTPNG EXMS RDR S V EXMS RD

Typical Application



Design Parameters

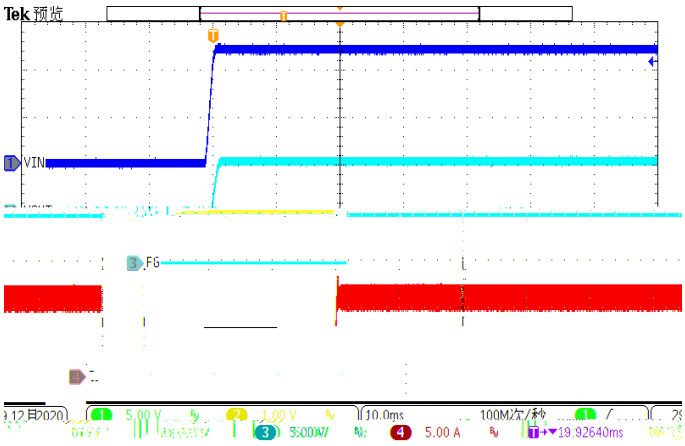
Design Parameters	Example Value

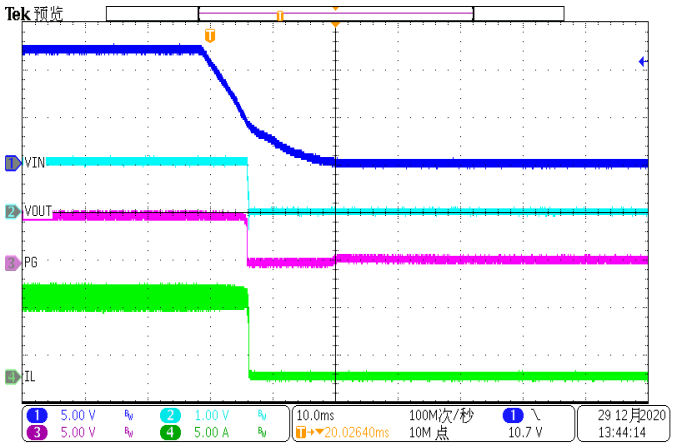
Input Capacitor Selection

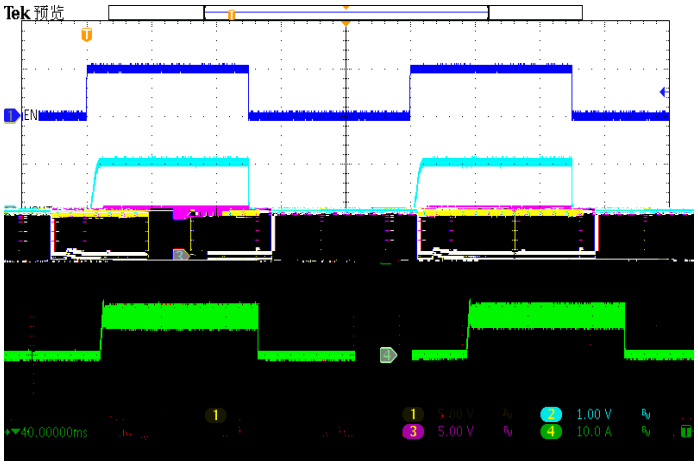
Inductor Selection

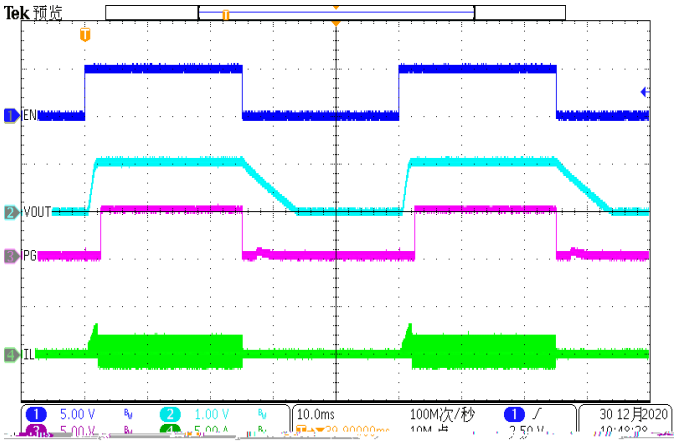
Output Capacitor Selection

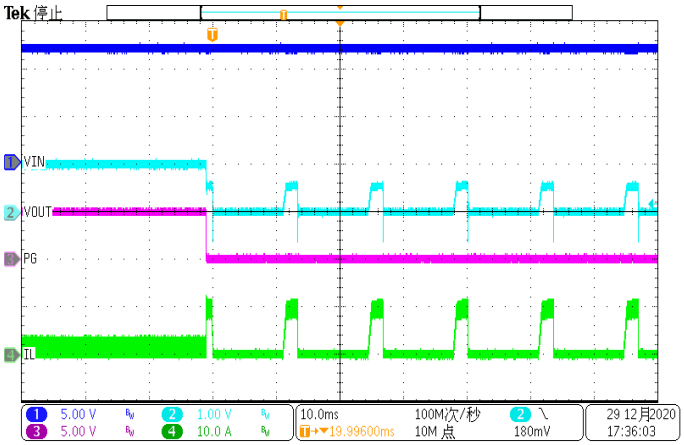
Application Waveforms

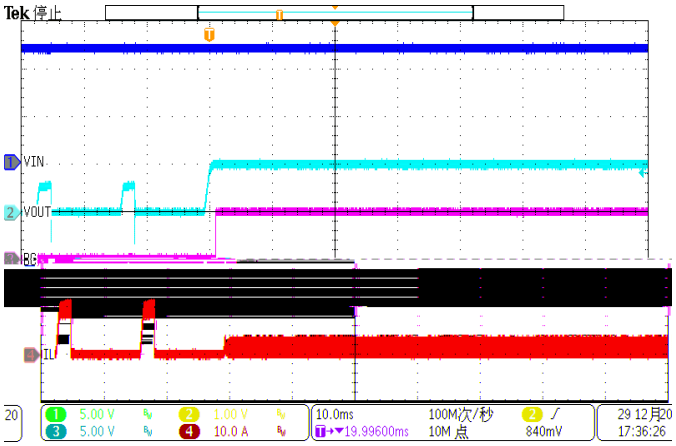




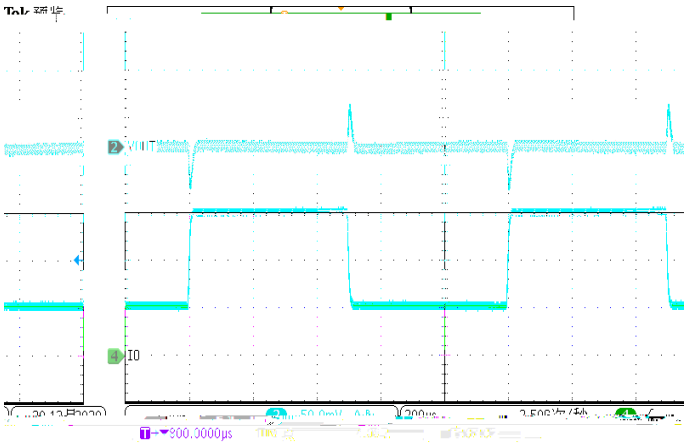


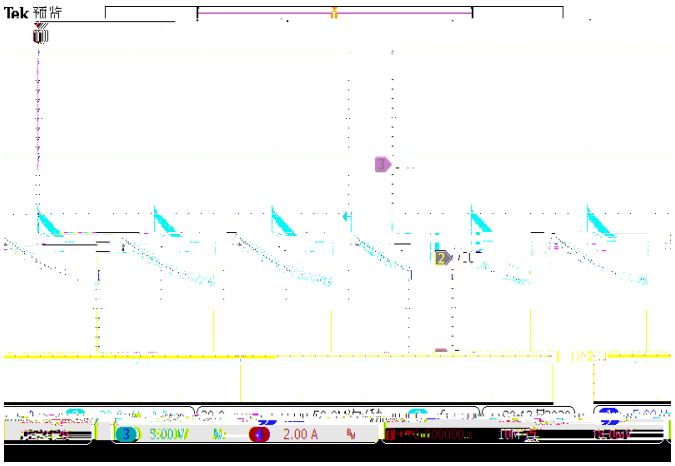


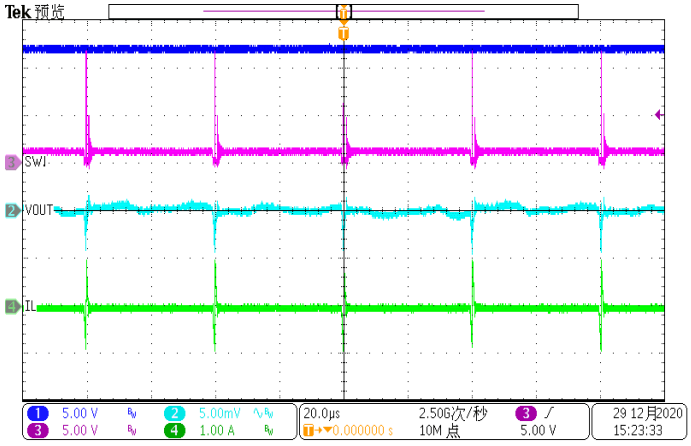


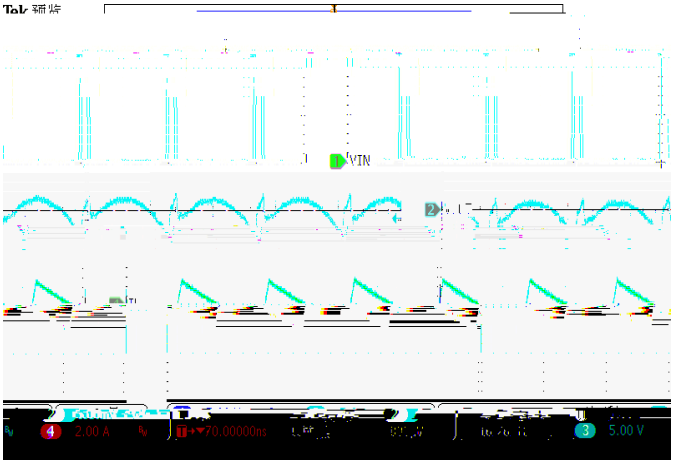


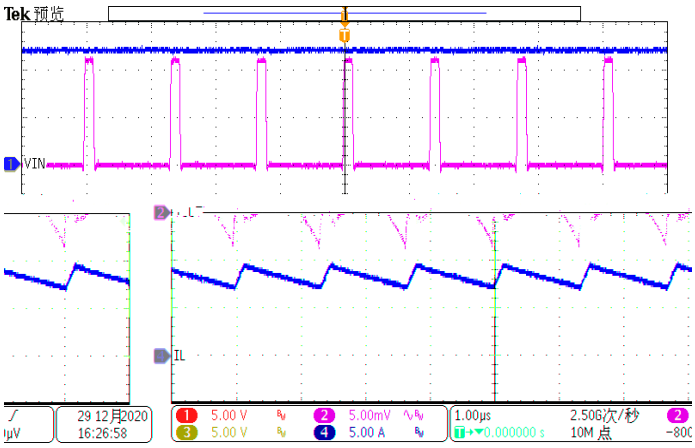
Application Waveforms(Continued)

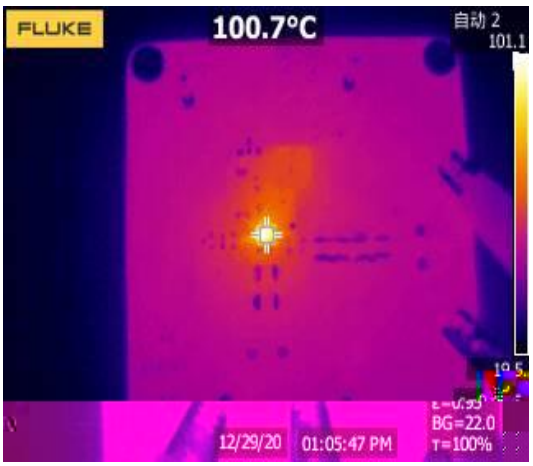












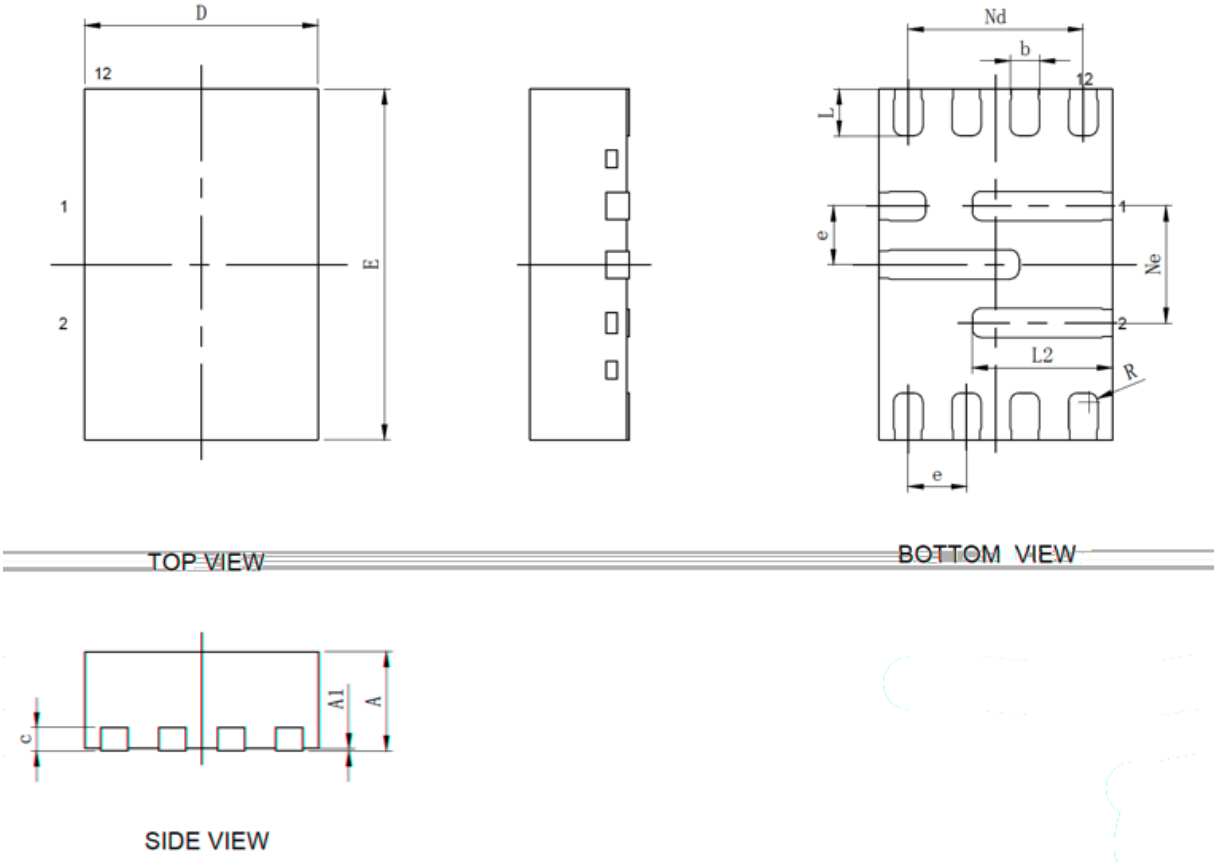
Layout Guideline

1.
2.

3.

4.

TE GOE KI DR S V EXMS R



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A			
A1			
b			
c			
D			
e			
Nd			
Ne			
E			
L			
L2			
R			

NOTE:

1.
2.
3.
4.
5.

D **D**

XE TI DE RHDVI I PDAR S V EXMS RD

SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A			
B			
C			
D			
t			

SYMBOL	MILLIMETER		
	MIN	NOM	MAX
E			
F			
P2			
D			
D1			
P0			
W			
P			
A0			
B0			
K0			
t			