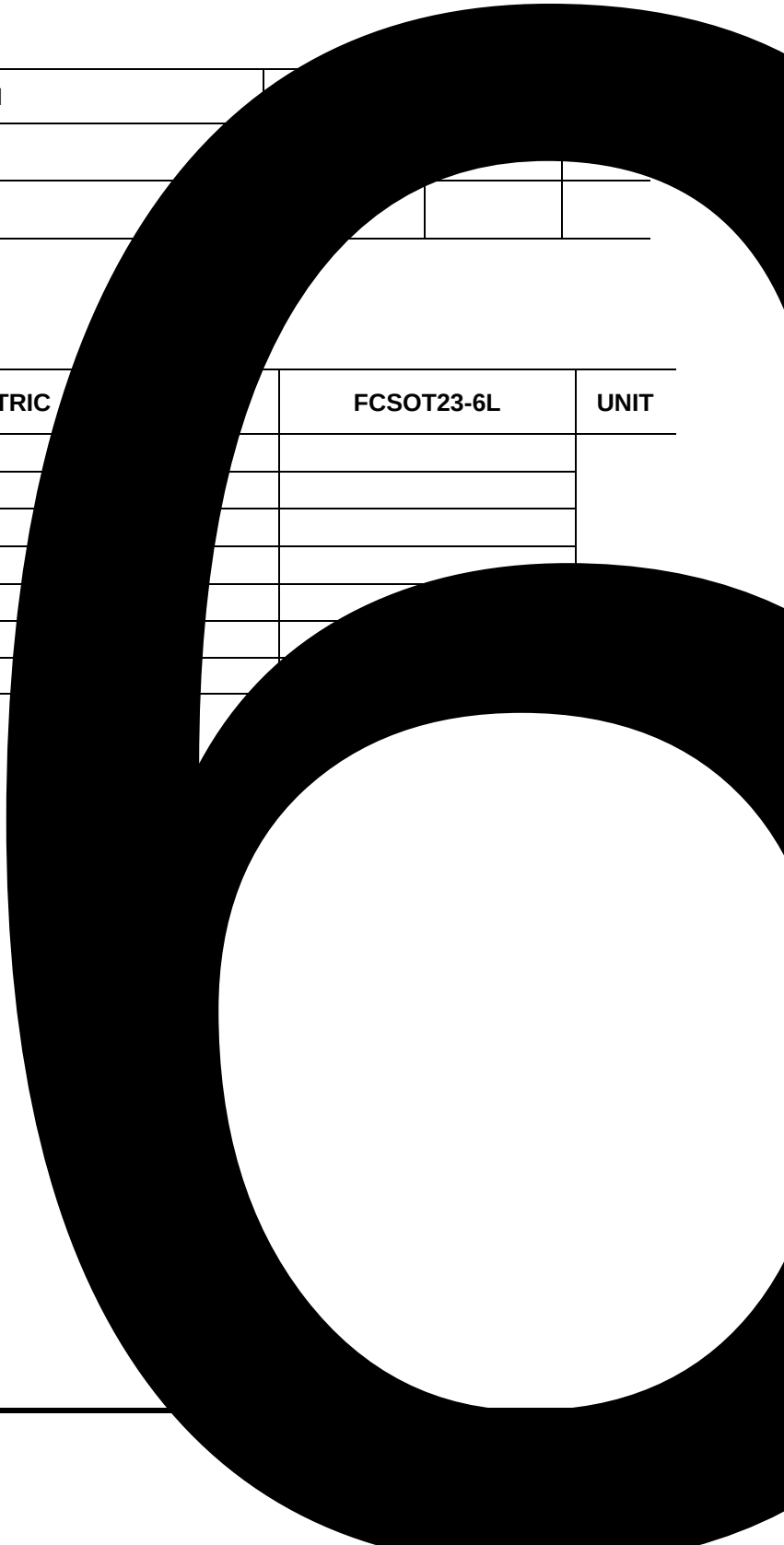
PARAMETER	DEFINITION	MIN	MAX	UNIT

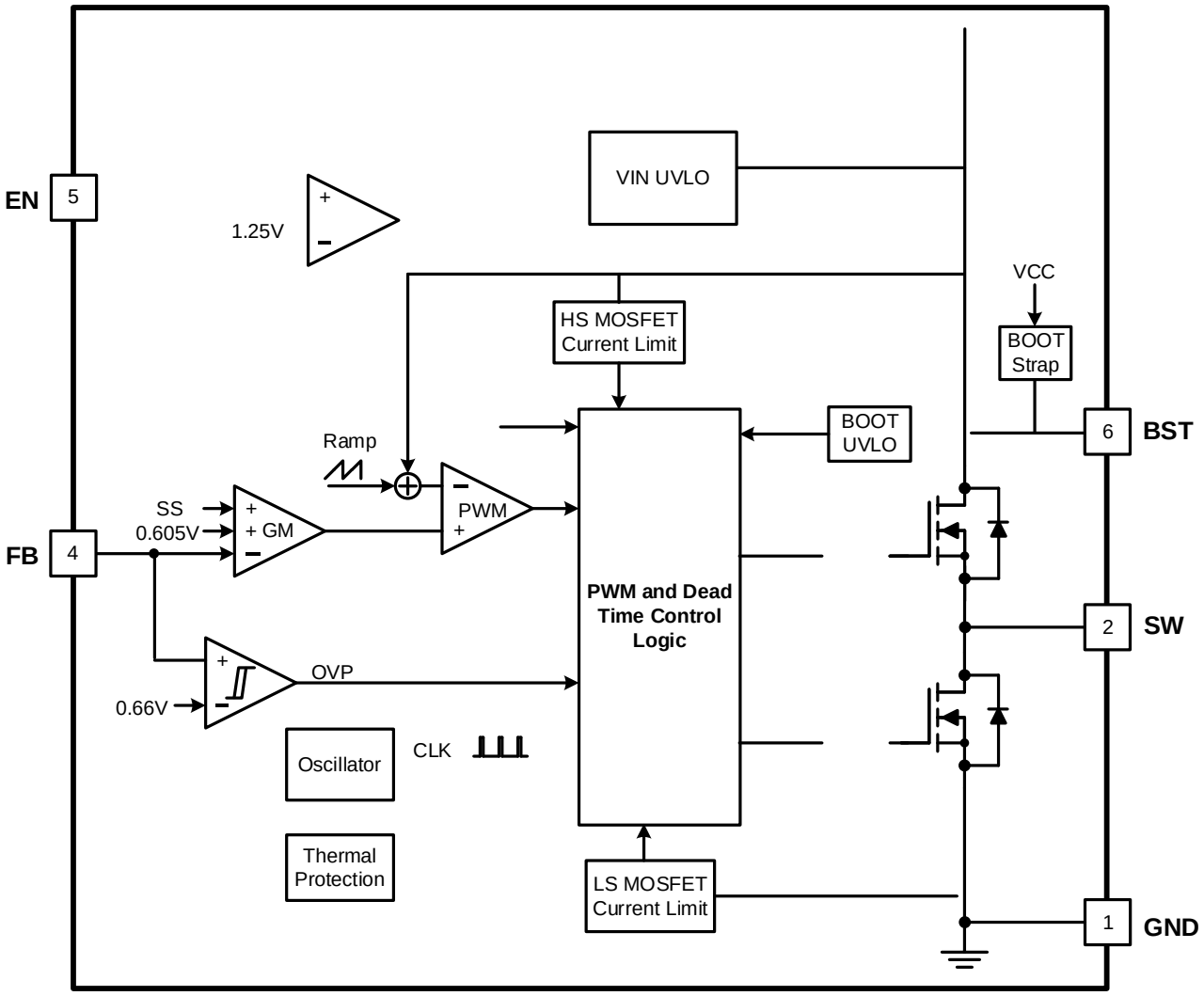
PARAMETER	DEFINITION			

(1)
(2)

PARAMETER	THERMAL METRIC	FCSOT23-6L	UNIT



SY [redacted]	TEST CONDITION	MIN	TYP	MAX	UNIT
Power Supply and Output					

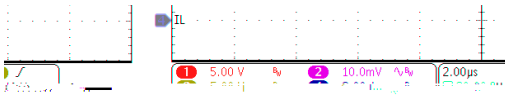

EN
5
1.25V
VIN UVLO
VCC
HS MOSFET
Current Limit
BOOT
Strap
BOOT
UVLO
6
BST
Ramp
SS
0.605V
+ GM
PWM
FB
4
PWM and Dead
Time Control
Logic
2
SW
OVP
0.66V
Oscillator
CLK
Thermal
Protection
LS MOSFET
Current Limit
1
GND

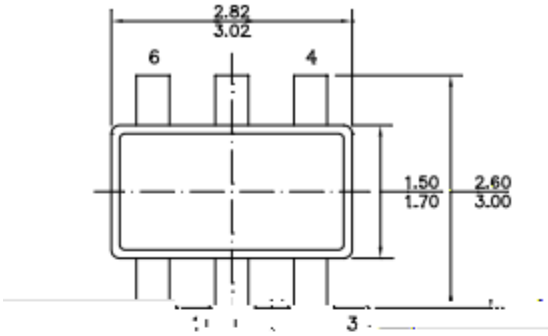
Peak Current Limit and Hiccup Mode

The inductor current is monitored during high-side MOSFET Q1 and low-side MOSFET Q2 on. The SCT2331D implements over current protection with cycle-by-cycle limiting high-side MOSFET peak current and low-side MOSFET valley current to avoid inductor current running away during unexpected overload or output hard short condition.

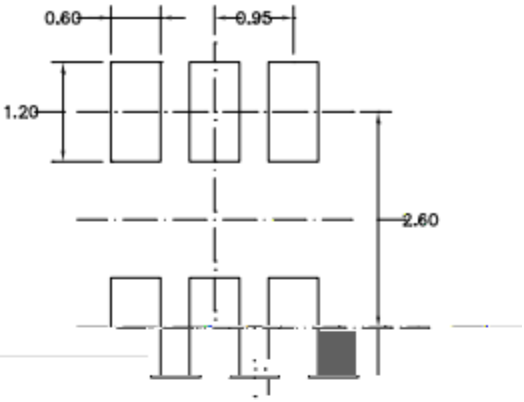
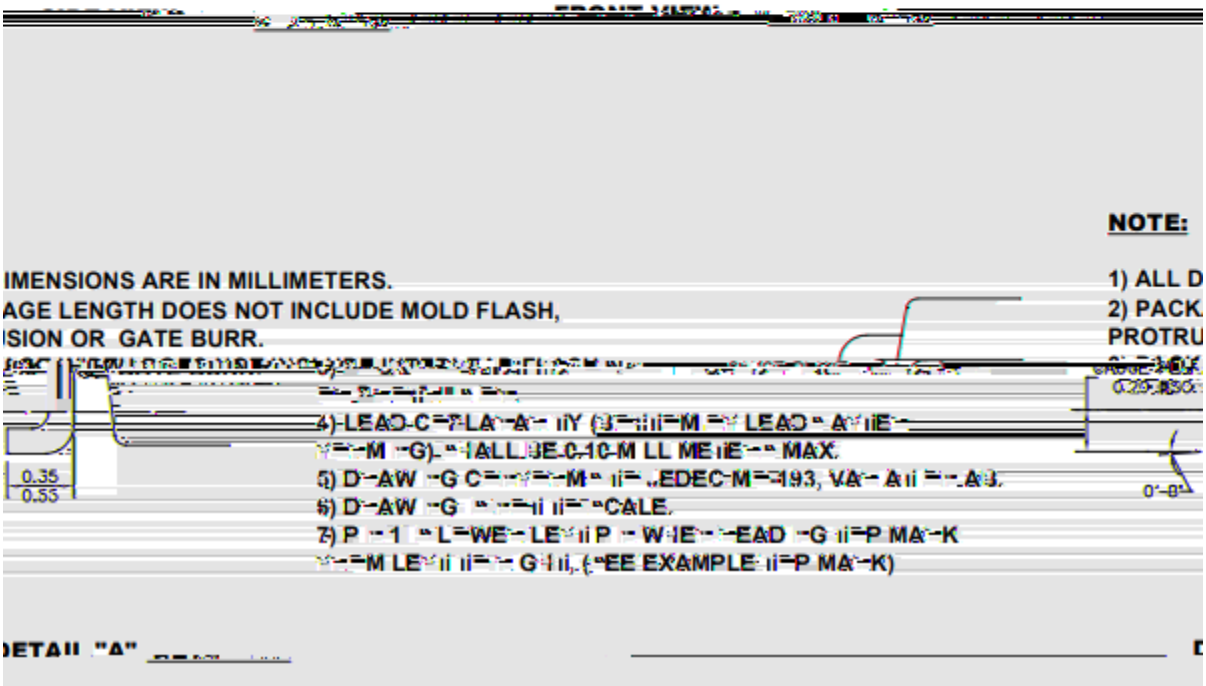
Application Waveforms

Application Waveforms





TOP VIEW



RECOMMENDED LAND PATTERN