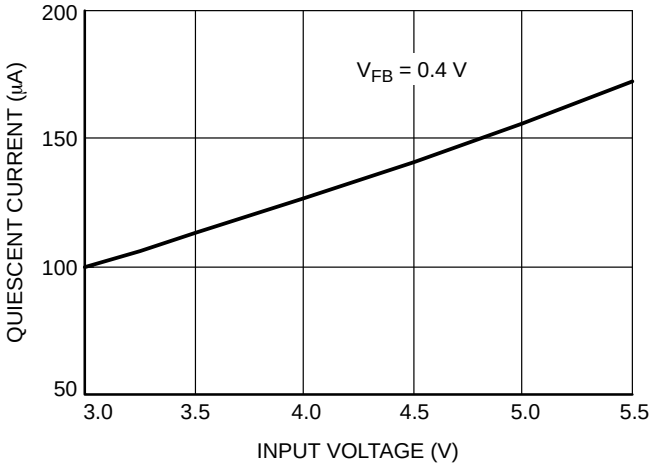
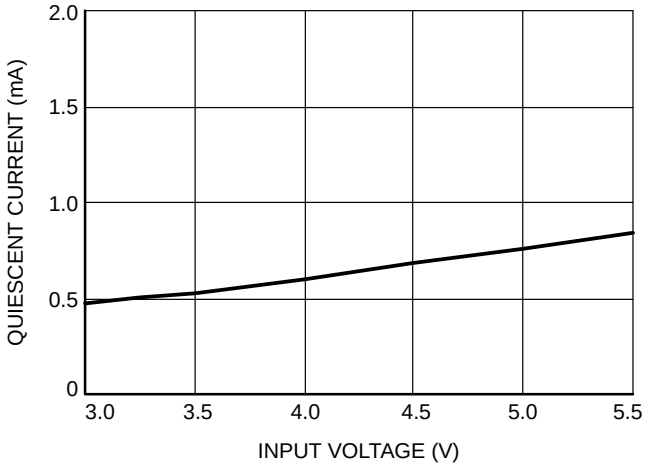
CAT4240

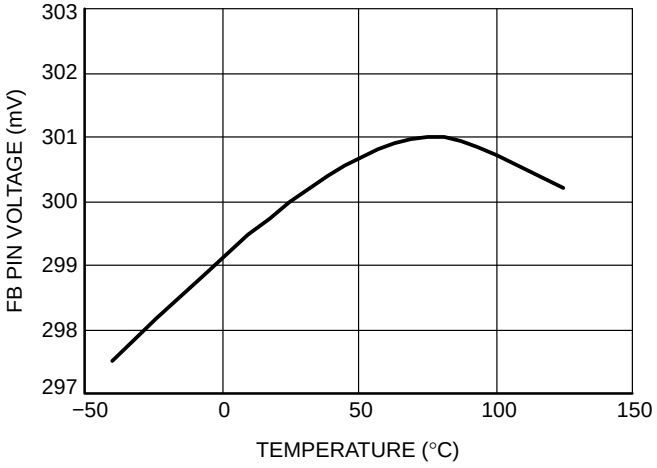
6 Watt Boost LED Driver

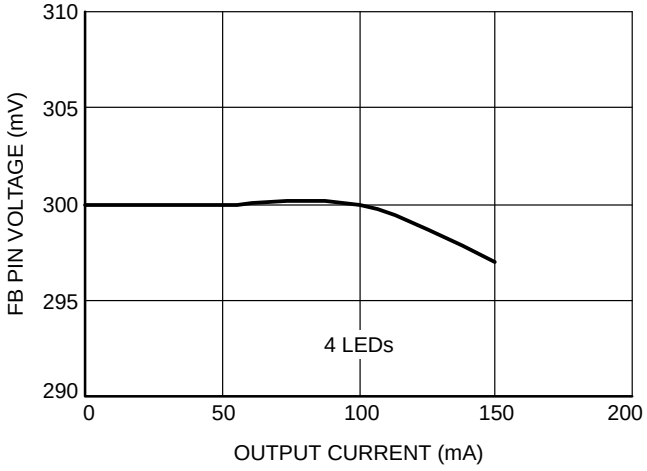
Publication Order Number:

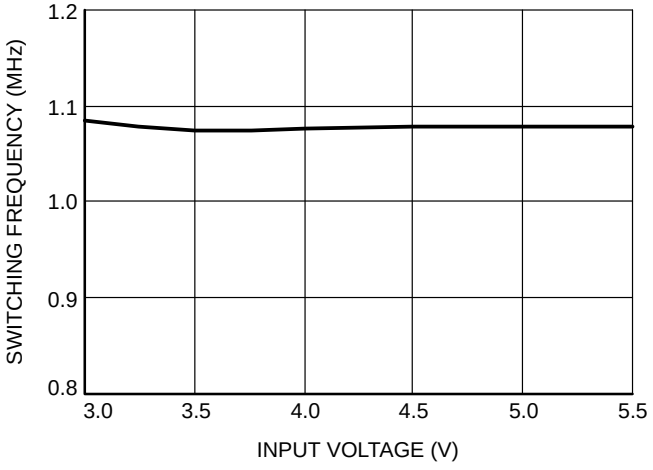
(V_{IN} = 5 V, V_L = 13 V, T_{AMB} = 25°C, typical application circuit unless otherwise specified.)

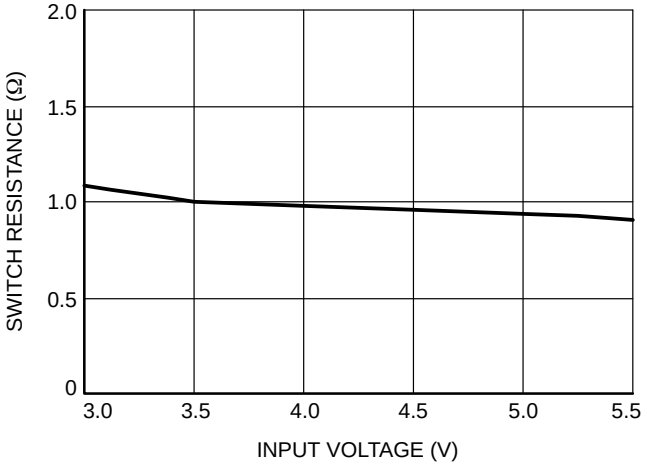












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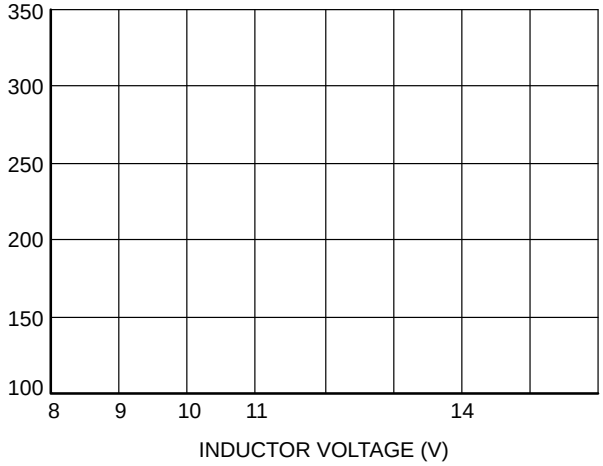

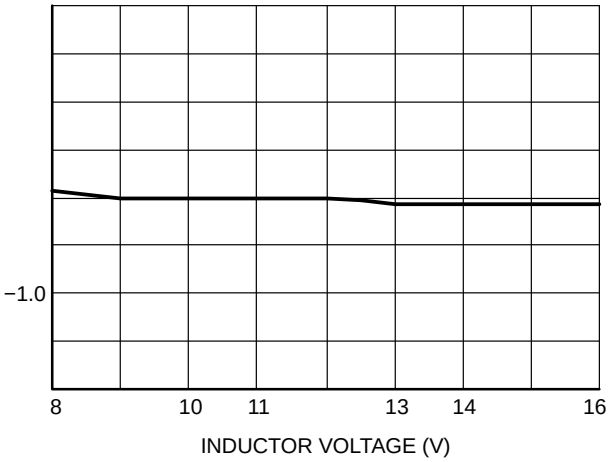

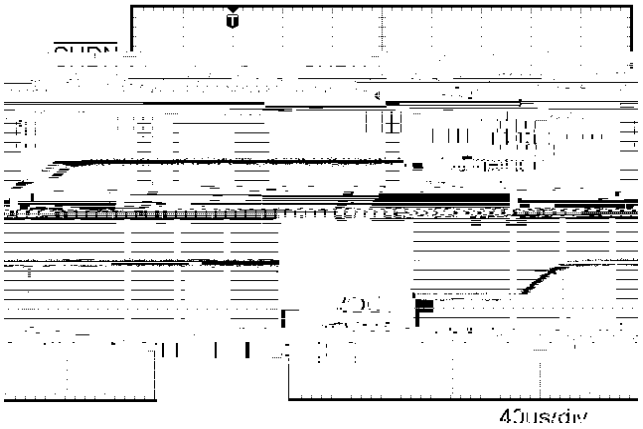

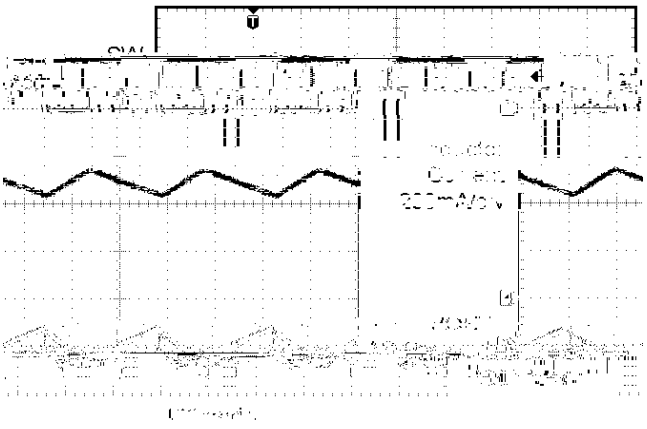

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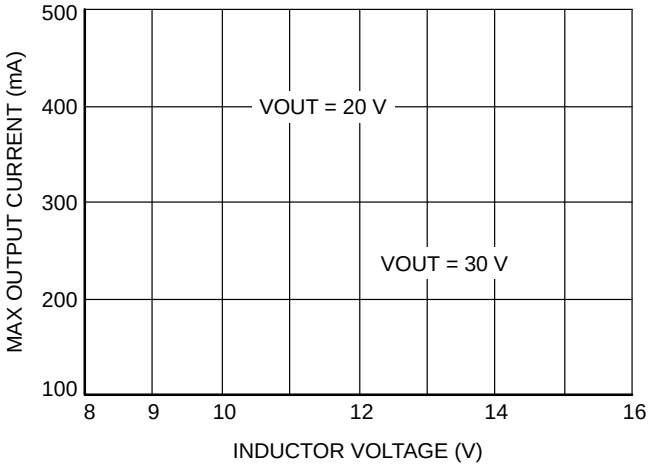
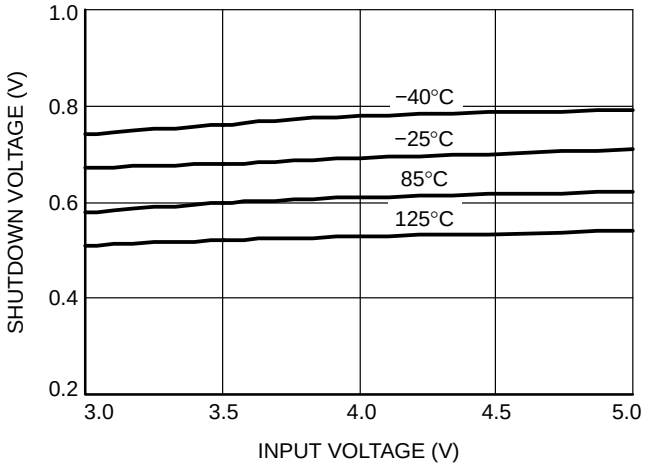
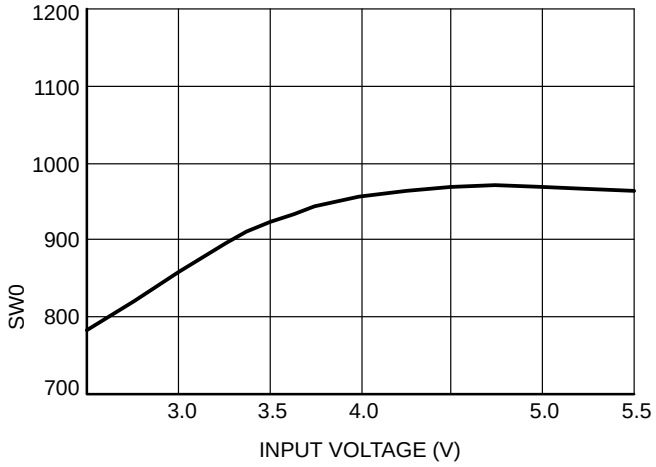


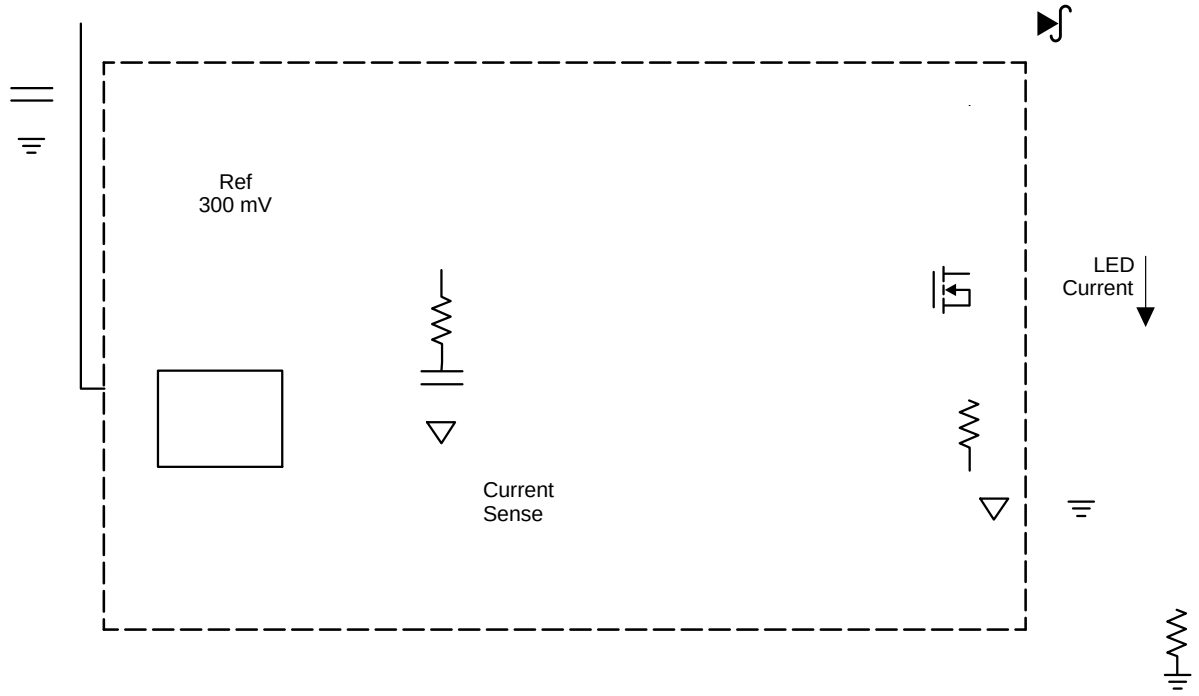


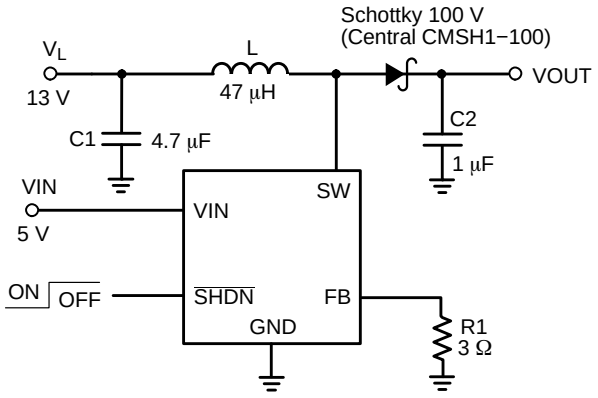


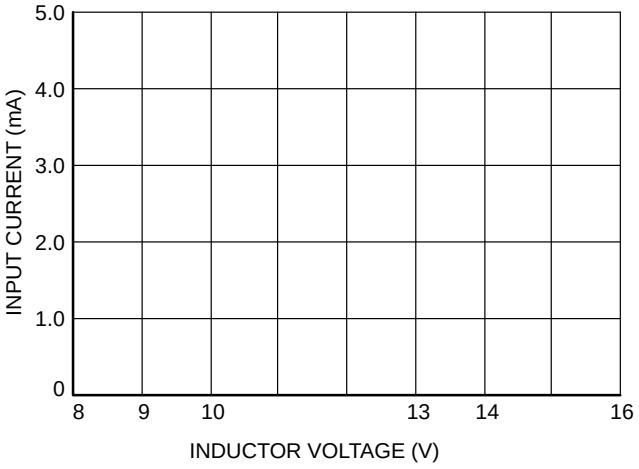
μ

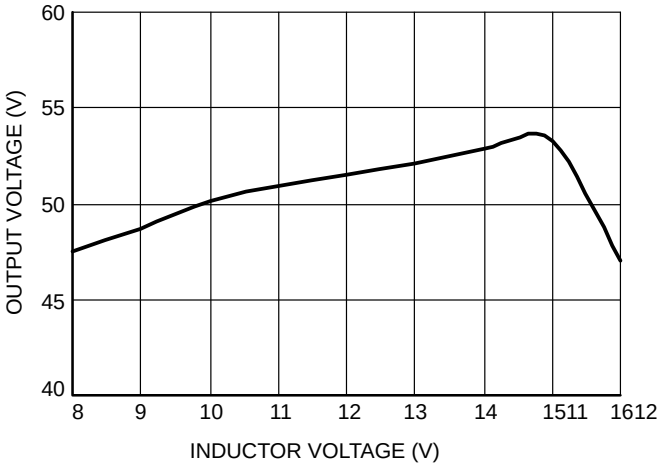
$$I_{LED} = \frac{0.3\ V}{R1}$$

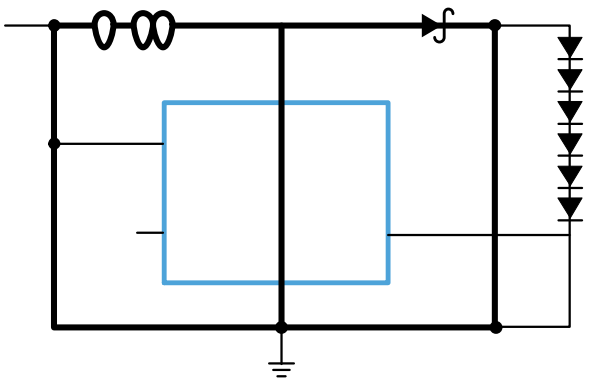
1	SW	Switch pin. This is the drain of the internal power switch.
2	GND	Ground pin. Connect the pin to the ground plane.
3	FB	Feedback pin. Connect to the last LED cathode.
4	$\overline{SHDN}$	Shutdown pin (Logic Low). Set high to enable the driver.
5	VIN	Power Supply input.




Schottky 100 V
(Central CMSH1−100)
V_L
13 V
L
47 μH
VOUT
C1
4.7 μF
C2
1 μF
VIN
5 V
VIN
SW
ON
OFF
SHDN
FB
GND
R1
3 Ω


INPUT CURRENT (mA)
5.0
4.0
3.0
2.0
1.0
0
8
9
10
13
14
16
INDUCTOR VOLTAGE (V)


OUTPUT VOLTAGE (V)
60
55
50
45
40
8
9
10
11
12
13
14
15
11
16
12
INDUCTOR VOLTAGE (V)



TSOT−23, 5 LEAD
CASE 419AE−01
ISSUE O

DATE 19 DEC 2008