



**THE DATASHEET OF
NCP705MT18TCG**



NCP705

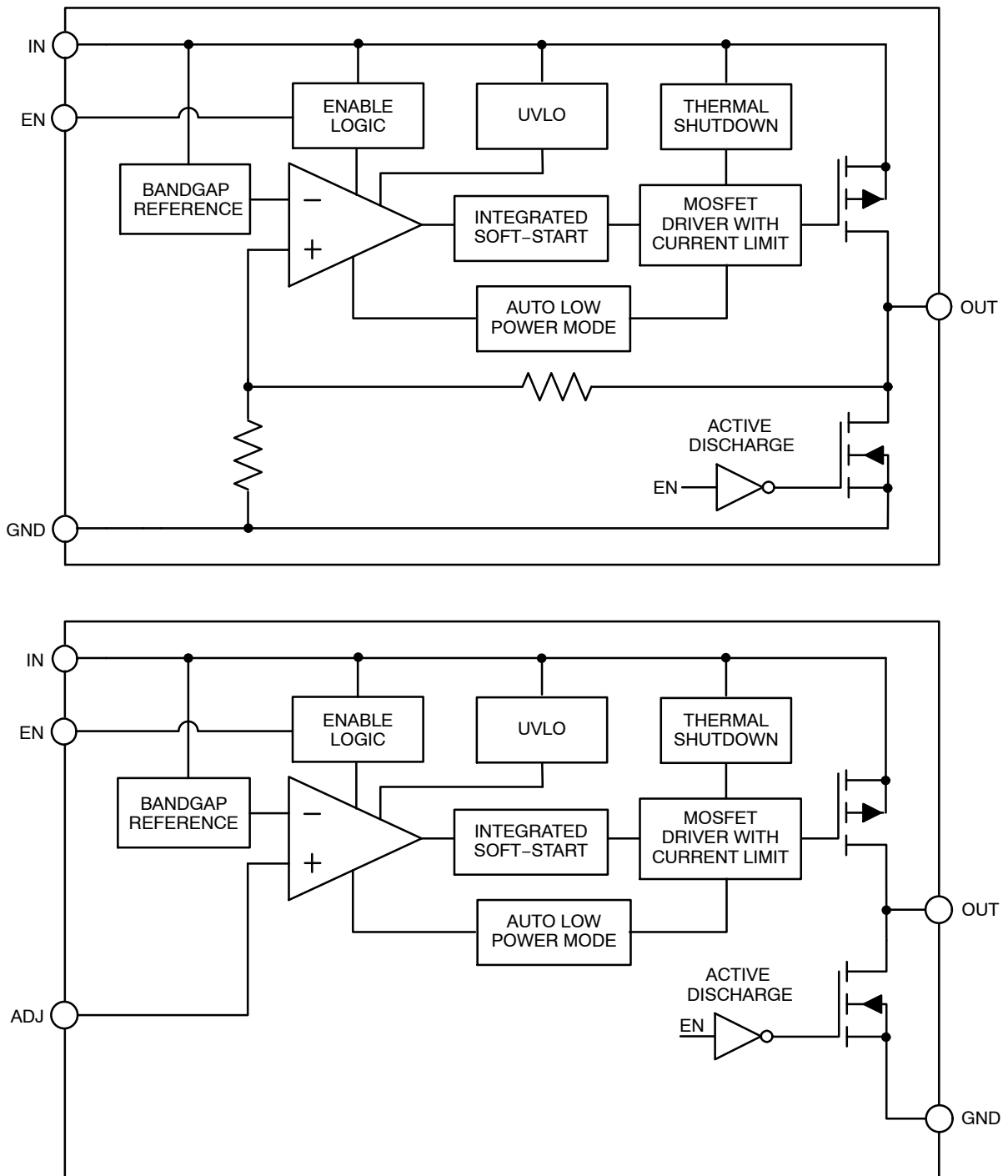
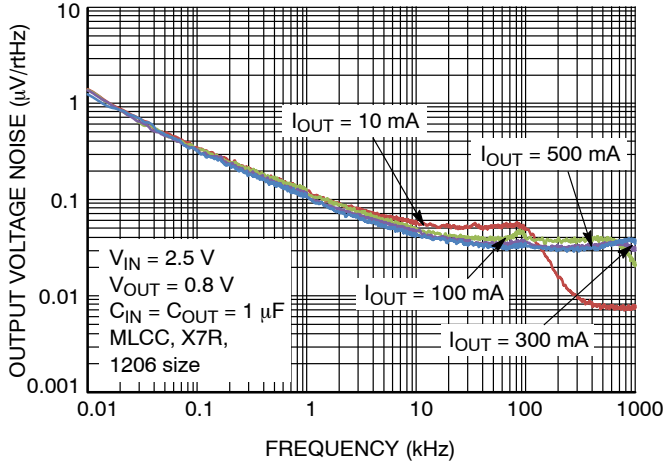


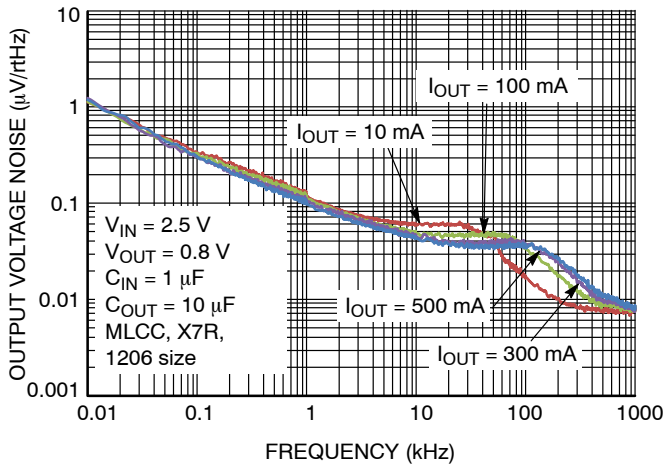
Figure 2. Simplified Schematic Block Diagrams

TYPICAL CHARACTERISTICS



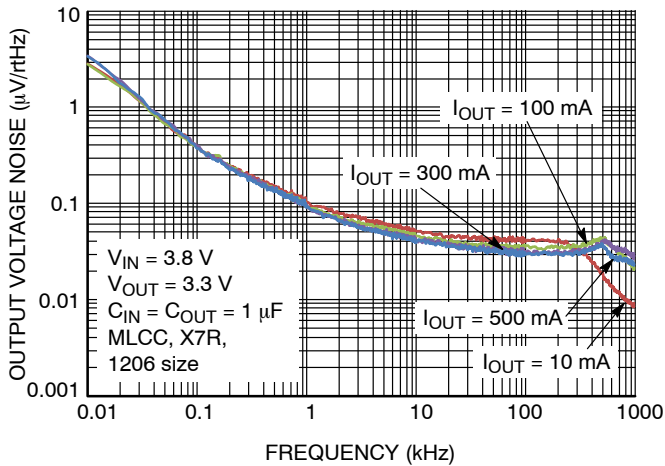
I _{OUT}	RMS Output Noise (μV)	
	10 Hz – 100 kHz	100 Hz – 100 kHz
10 mA	19.06	18.21
100 mA	15.99	15.04
300 mA	14.42	13.39
500 mA	13.70	12.60

Figure 3. Output Voltage Noise Spectral Density for V_{OUT} = 0.8 V, C_{OUT} = 1 μF



I _{OUT}	RMS Output Noise (μV)	
	10 Hz – 100 kHz	100 Hz – 100 kHz
10 mA	16.17	15.28
100 mA	16.41	15.65
300 mA	14.94	14.10
500 mA	14.08	13.11

Figure 4. Output Voltage Noise Spectral Density for V_{OUT} = 0.8 V, C_{OUT} = 10 μF



I _{OUT}	RMS Output Noise (μV)	
	10 Hz – 100 kHz	100 Hz – 100 kHz
10 mA	18.12	15.39
100 mA	16.42	13.50
300 mA	16.35	12.47
500 mA	16.00	12.10

Figure 5. Output Voltage Noise Spectral Density for V_{OUT} = 3.3 V, C_{OUT} = 1 μF

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TYPICAL CHARACTERISTICS

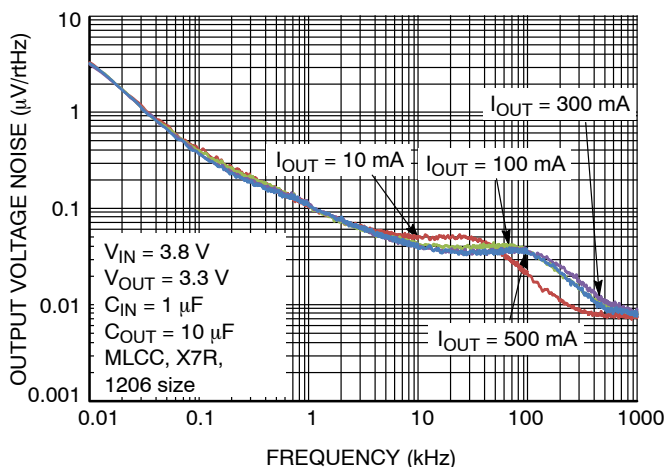


Figure 6. Output Voltage Noise Spectral Density for $V_{OUT} = 3.3\text{ V}$, $C_{OUT} = 10\ \mu\text{F}$

I_{OUT}	RMS Output Noise (μV)	
	10 Hz – 100 kHz	100 Hz – 100 kHz
1 mA	17.35	14.07
100 mA	17.43	14.29
300 mA	16.55	13.33
500 mA	16.48	13.20

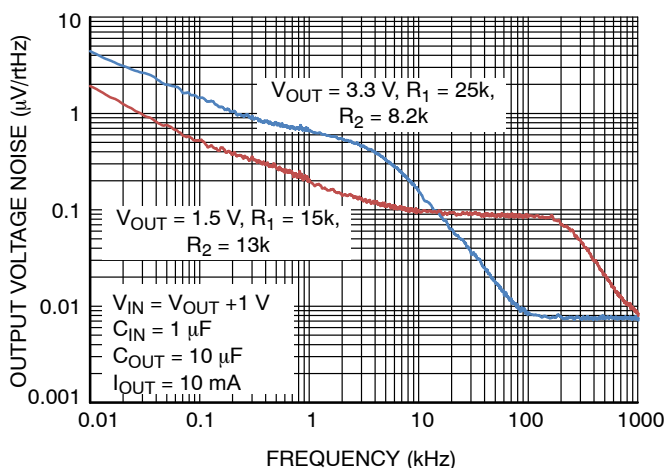


Figure 7. Output Voltage Noise Spectral Density for Adjustable Version – Different Output Voltage

V_{OUT}	RMS Output Noise (μV)	
	10 Hz – 100 kHz	100 Hz – 100 kHz
1.5 V	31.40	30.33
3.3 V	49.14	44.30

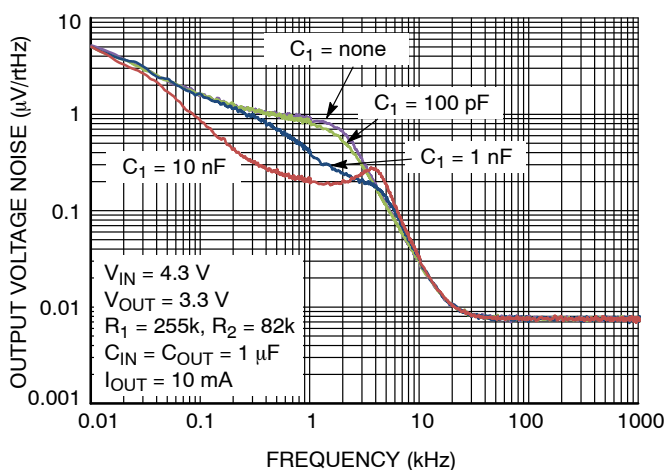


Figure 8. Output Voltage Noise Spectral Density for Adjustable Version for Various C_1

I_{OUT}	RMS Output Noise (μV)	
	10 Hz – 100 kHz	100 Hz – 100 kHz
none	50.17	43.85
100 pF	46.90	40.39
1 nF	36.92	27.99
10 nF	27.02	18.31

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TYPICAL CHARACTERISTICS

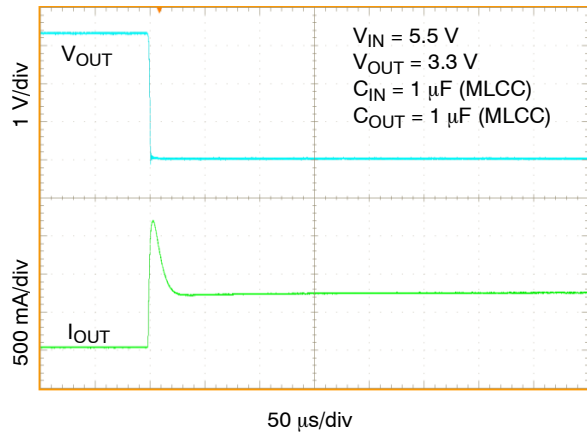


Figure 62. Short-Circuit Current Peak

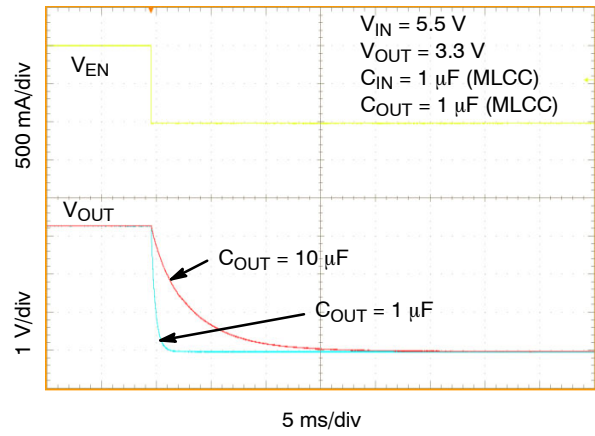




Figure 63. Enable Turn-off

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