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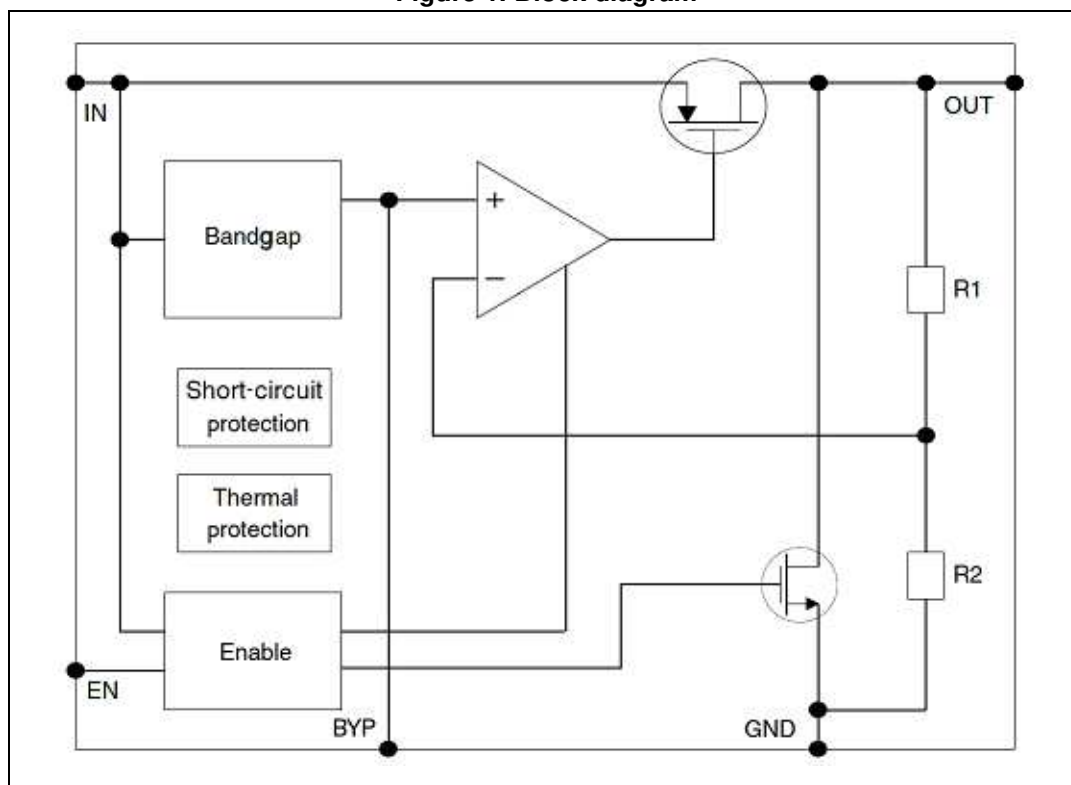
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1 Block diagram

Figure 1. Block diagram



2 Pin configuration

Figure 2. Pin connections (top view)

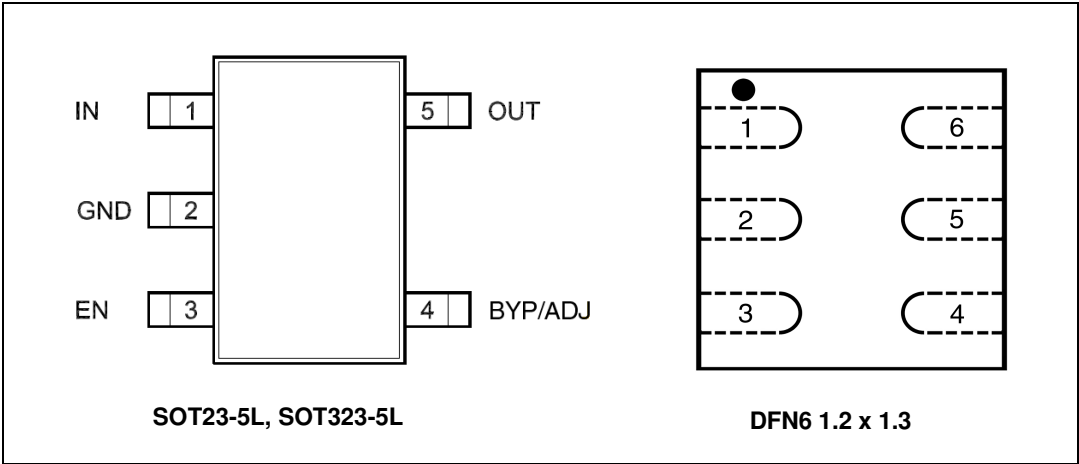


Table 1. Pin description (SOT23-5L, SOT323-5L)

Pin		Symbol	Function
SOT23/ SOT323	DFN6		
1	6	IN	Input voltage of the LDO
2	2	GND	Common ground
3	4	EN	Enable pin logic input: low = shutdown, high = active
4	3	BYP ⁽¹⁾ /ADJ	Bypass capacitor on fixed versions, adjustable pin on ADJ versions
5	1	OUT	Output voltage of the LDO
-	5	N/C	Not connected. This pin should be connected to GND

1. Bypass capacitor for noise reduction on fixed version is optional, if not used the relevant pin must be left floating with no routing on the board.

3 Typical application

Figure 3. Typical application circuits for fixed version

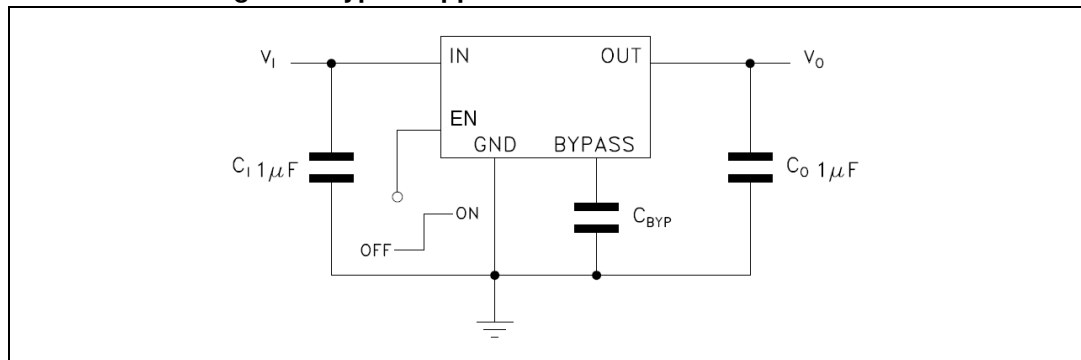
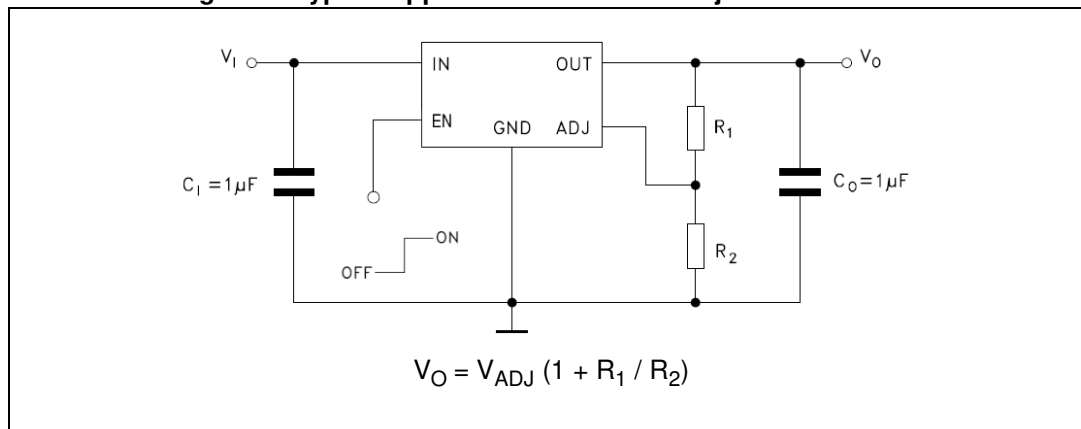


Figure 4. Typical application circuits for adjustable version



4 Maximum ratings

Table 2. Absolute maximum ratings

Symbol	Parameter	Value	Unit
V_{IN}	DC input voltage	- 0.3 to 7	V
V_{OUT}	DC output voltage	- 0.3 to $V_I + 0.3$	V
V_{EN}	Enable input voltage	- 0.3 to $V_I + 0.3$	V
$V_{BYP/ADJ}$	ADJ/bypass pin voltage	2	V
I_{OUT}	Output current	Internally limited	mA
P_D	Power dissipation	Internally limited	mW
T_{STG}	Storage temperature range	- 65 to 150	°C
T_{OP}	Operating junction temperature range	- 40 to 125	°C

Note: *Absolute maximum ratings are those values beyond which damage to the device may occur. Functional operation under these conditions is not implied. All values are referred to GND.*

Table 3. Thermal data

Symbol	Parameter	SOT23-5L	SOT323-5L	DFN6	Unit
R_{thJA}	Thermal resistance junction ambient	160	246	237	°C/W
R_{thJC}	Thermal resistance junction case	68	134	104	°C/W

5 Electrical characteristics

$T_J = 25\text{ }^{\circ}\text{C}$, $V_{IN} = V_{OUT(NOM)} + 1\text{ V}$, $C_{IN} = C_{OUT} = 1\text{ }\mu\text{F}$, $I_{OUT} = 1\text{ mA}$, $V_{EN} = V_{IN}$, unless otherwise specified.

Table 4. Electrical characteristics for LDK130 (fixed version)

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_{IN}	Operating input voltage	-	1.9	-	5.5	V
V_{OUT}	V_{OUT} accuracy	$I_{OUT} = 1\text{ mA}$, $T_J = 25\text{ }^{\circ}\text{C}$	-2.0	-	2.0	%
		$I_{OUT} = 1\text{ mA}$, $-40\text{ }^{\circ}\text{C} < T_J < 125\text{ }^{\circ}\text{C}$	-3.0	-	3.0	%
ΔV_{OUT}	Static line regulation	$V_{OUT} + 1\text{ V} \leq V_{IN} \leq 5.5\text{ V}$, $I_{OUT} = 1\text{ mA}$	-	0.05	-	%/V
ΔV_{OUT}	Static load regulation	$I_{OUT} = 1\text{ mA}$ to 300 mA	-	0.006	-	%/mA
V_{DROP}	Dropout voltage ⁽¹⁾	$I_{OUT} = 100\text{ mA}$, $V_{OUT} = 2.5\text{ V}$	-	100	-	mV
		$I_{OUT} = 300\text{ mA}$, $V_{OUT} = 2.5\text{ V}$ $40\text{ }^{\circ}\text{C} < T_J < 125\text{ }^{\circ}\text{C}$	-	200	400	
e_N	Output noise voltage	10 Hz to 100 kHz, $I_{OUT} = 10\text{ mA}$, $V_{OUT} = 2.5\text{ V}$, $C_{BYP} = 10\text{ nF}$	-	51	-	$\mu\text{V}_{RMS}/\text{V}$
SVR	Supply voltage rejection	$V_{IN} = V_{OUTNOM} + 0.5\text{ V} \pm V_{RIPPLE}$ $V_{RIPPLE} = 0.1\text{ V}$ freq. = 120 Hz to 10 kHz $I_{OUT} = 10\text{ mA}$	-	55	-	dB
I_Q	Quiescent current	$I_{OUT} = 0\text{ mA}$, $-40\text{ }^{\circ}\text{C} < T_J < 125\text{ }^{\circ}\text{C}$	-	30	60	μA
		$I_{OUT} = 300\text{ mA}$, $-40\text{ }^{\circ}\text{C} < T_J < 125\text{ }^{\circ}\text{C}$	-	70	120	
		V_{IN} input current in OFF mode: $V_{EN} = \text{GND}$	-	-	1	
I_{SC}	Short-circuit current	$R_L = 0$	-	450	-	mA
V_{EN}	Enable input logic low	$V_{IN} = 1.9\text{ V}$ to 5.5 V , $-40\text{ }^{\circ}\text{C} < T_J < 125\text{ }^{\circ}\text{C}$	-	-	0.4	V
	Enable input logic high	$V_{IN} = 1.9\text{ V}$ to 5.5 V , $-40\text{ }^{\circ}\text{C} < T_J < 125\text{ }^{\circ}\text{C}$	1.2	-	-	
I_{EN}	Enable pin input current	$V_{SHDN} = V_{IN}$	-	-	100	nA
T_{SHDN}	Thermal shutdown	-	-	160	-	$^{\circ}\text{C}$
	Hysteresis	-	-	20	-	
C_{OUT}	Output capacitor	Capacitance (see Section 6: Typical performance characteristics)	1	-	22	μF

1. Dropout voltage is the input-to-output voltage difference at which the output voltage is 100 mV below its nominal value.

$T_J = 25\text{ }^{\circ}\text{C}$, $V_{IN} = V_{OUT(NOM)} + 1\text{ V}$, $C_{IN} = C_{OUT} = 1\text{ }\mu\text{F}$, $I_{OUT} = 1\text{ mA}$, $V_{EN} = V_{IN}$, unless otherwise specified.

Table 5. Electrical characteristics for LDK130 (adjustable version)

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_{IN}	Operating input voltage		1.9	-	5.5	V
V_{ADJ}	V_{ADJ} accuracy	$I_{OUT} = 1\text{ mA}$, $T_J = 25\text{ }^{\circ}\text{C}$	784	800	816	mV
		$I_{OUT} = 1\text{ mA}$, $-40\text{ }^{\circ}\text{C} < T_J < 125\text{ }^{\circ}\text{C}$	-3.0		3.0	%
ΔV_{OUT}	Static line regulation	$V_{OUT} + 1\text{ V} \leq V_{IN} \leq 5.5\text{ V}$, $I_{OUT} = 1\text{ mA}$	-	0.05	-	%/V
ΔV_{OUT}	Static load regulation	$I_{OUT} = 1\text{ mA}$ to 300 mA	-	0.006	-	%/mA
V_{DROP}	Dropout voltage ⁽¹⁾	$I_{OUT} = 100\text{ mA}$, $V_{OUT} = 2.5\text{ V}$	-	100	-	mV
		$I_{OUT} = 300\text{ mA}$, $V_{OUT} = 2.5\text{ V}$ $40\text{ }^{\circ}\text{C} < T_J < 125\text{ }^{\circ}\text{C}$	-	200	400	
e_N	Output noise voltage	10 Hz to 100 kHz, $I_{OUT} = 10\text{ mA}$	-	130	-	$\mu\text{V}_{RMS}/\text{V}$
I_{ADJ}	Adjust pin current	-	-		1	μA
SVR	Supply voltage rejection	$V_{IN} = V_{OUTNOM} + 0.5\text{ V} \pm V_{RIPPLE}$ $V_{RIPPLE} = 0.1\text{ V}$ freq. = 120 Hz to 10 kHz $I_{OUT} = 10\text{ mA}$	-	55		dB
I_Q	Quiescent current	$I_{OUT} = 0\text{ mA}$, $-40\text{ }^{\circ}\text{C} < T_J < 125\text{ }^{\circ}\text{C}$	-	30	60	μA
		$I_{OUT} = 300\text{ mA}$, $-40\text{ }^{\circ}\text{C} < T_J < 125\text{ }^{\circ}\text{C}$	-	70	120	
		V_{IN} input current in OFF mode: $V_{EN} = \text{GND}$	-	-	1	
I_{SC}	Short-circuit current	$R_L = 0$	-	450	-	mA
V_{EN}	Enable input logic low	$V_{IN} = 1.9\text{ V}$ to 5.5 V , $-40\text{ }^{\circ}\text{C} < T_J < 125\text{ }^{\circ}\text{C}$	-	-	0.4	V
	Enable input logic high	$V_{IN} = 1.9\text{ V}$ to 5.5 V , $-40\text{ }^{\circ}\text{C} < T_J < 125\text{ }^{\circ}\text{C}$	1.2	-	-	
I_{EN}	Enable pin input current	$V_{SHDN} = V_{IN}$	-		100	nA
T_{SHDN}	Thermal shutdown	-	-	160	-	$^{\circ}\text{C}$
	Hysteresis	-	-	20	-	
C_{OUT}	Output capacitor	Capacitance (see Section 6: Typical performance characteristics)	1		22	μF

1. Dropout voltage is the input-to-output voltage difference at which the output voltage is 100 mV below its nominal value.

6 Typical performance characteristics

$C_{IN} = C_{OUT} = 1 \mu F$, V_{EN} to V_{IN} , unless otherwise specified.

Figure 5. Output voltage vs. temp. for adjustable ($I_O = 1 \text{ mA}$)

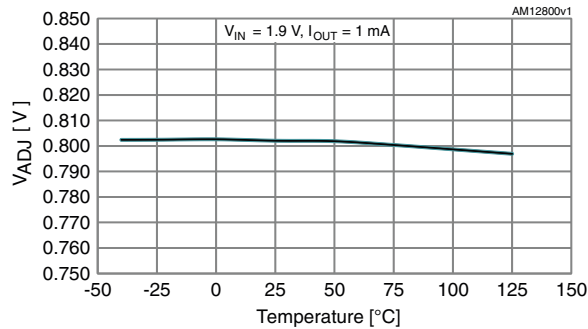


Figure 6. Output voltage vs. temp. for adjustable version ($I_O = 300 \text{ mA}$)

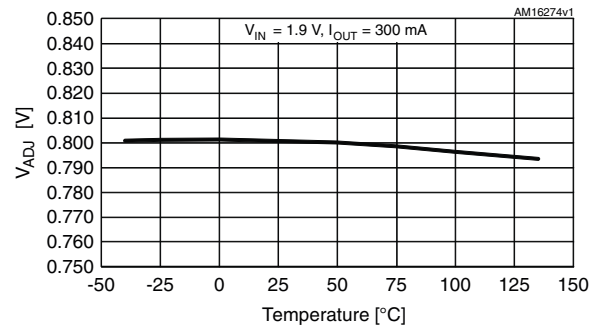


Figure 7. Output voltage vs. temp. for fixed version ($I_O = 1 \text{ mA}$)

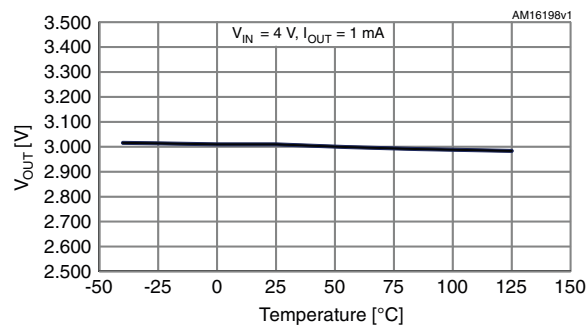


Figure 8. Output voltage vs. temp. for fixed version ($I_O = 300 \text{ mA}$)

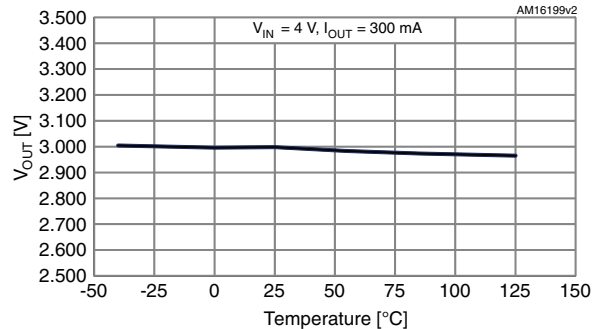


Figure 9. Line regulation vs. temp. for adjustable version

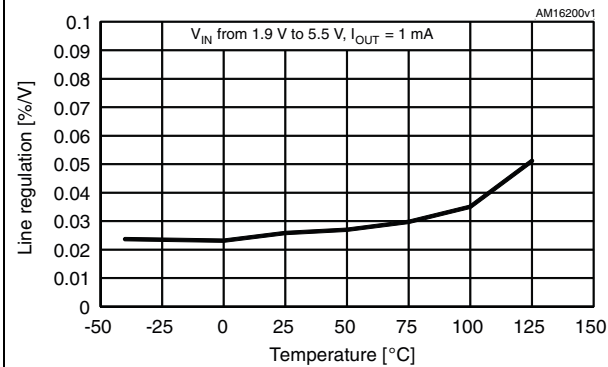


Figure 10. Short-circuit current vs. temp. for adjustable version

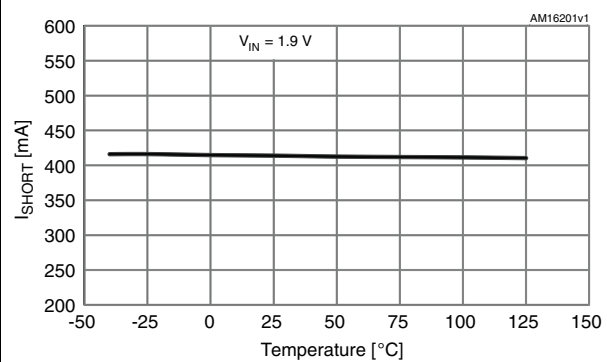


Figure 11. Load regulation vs. temp. for adjustable version

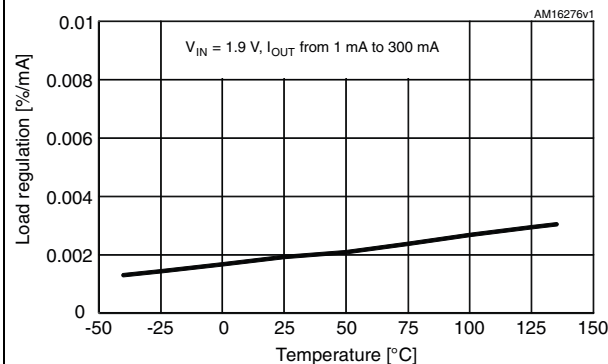


Figure 12. Load regulation vs. temp. for fixed version

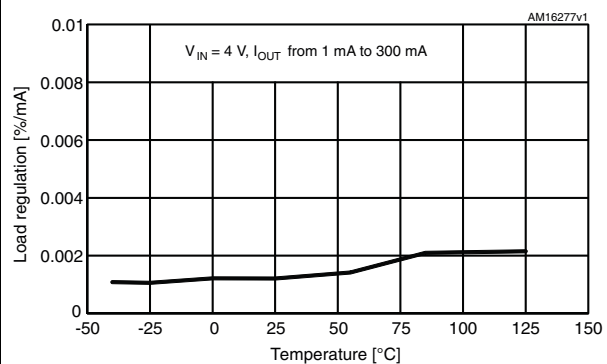


Figure 13. Enable pin thresholds vs. temp. ($V_{IN} = 1.9$ V)

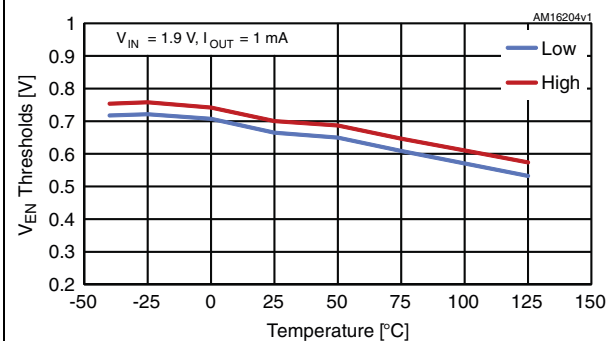


Figure 14. Enable pin thresholds vs. temp.

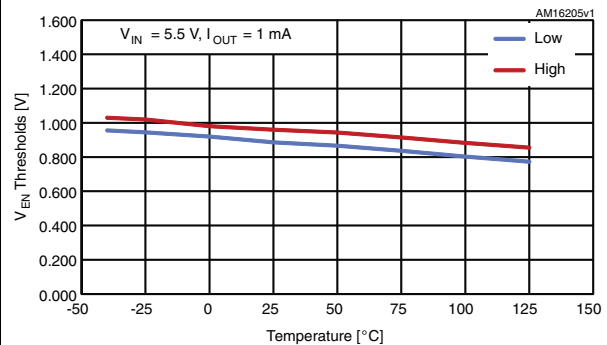


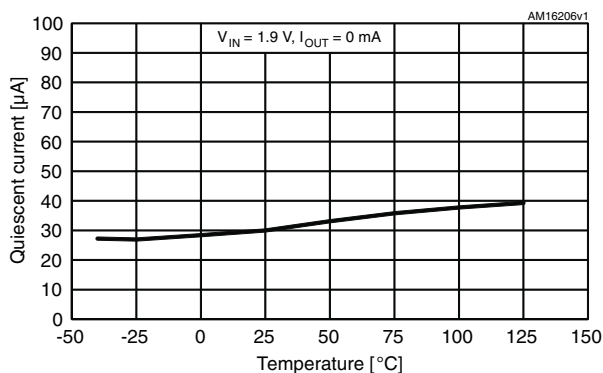
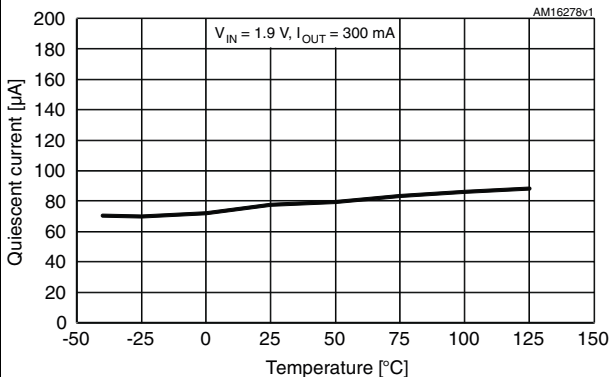
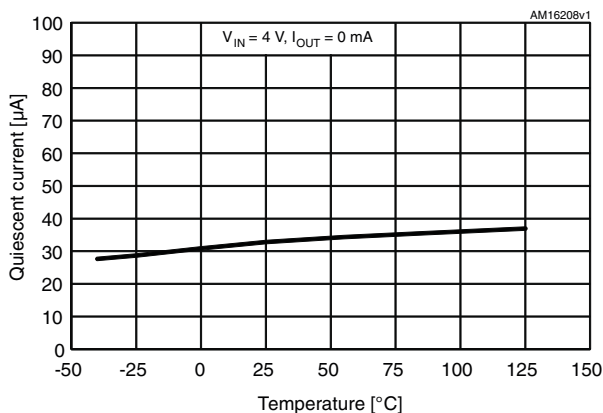
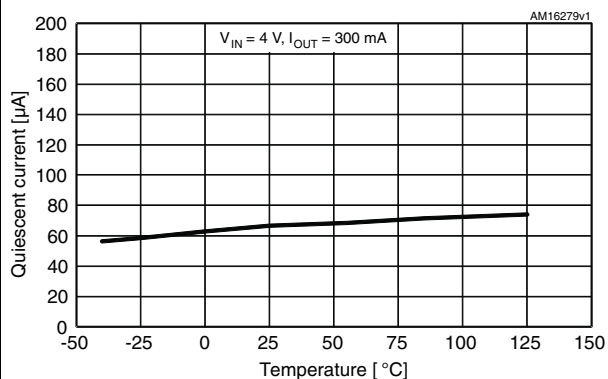
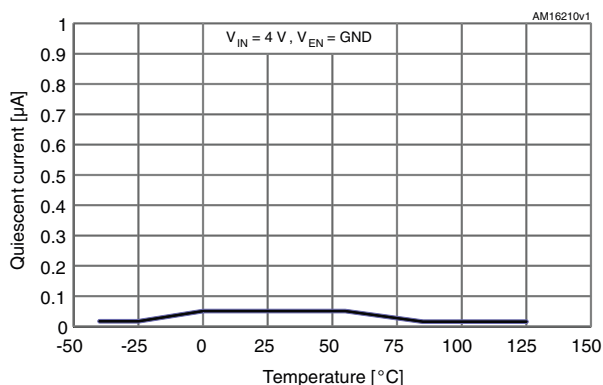
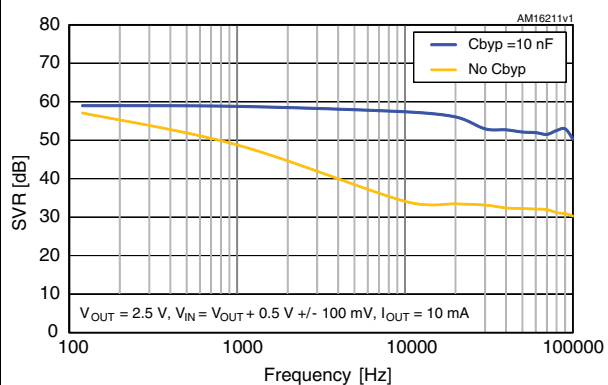
Figure 15. Quiescent current vs. temp. for adjustable version ($I_O = 0$ mA)**Figure 16. Quiescent current vs. temp. for adjustable version ($I_O = 300$ mA)****Figure 17. Quiescent current vs. temp. for fixed version ($I_O = 0$ mA)****Figure 18. Quiescent current vs. temp. for fixed version ($I_O = 300$ mA)****Figure 19. Shutdown current vs. temperature****Figure 20. SVR vs. frequency ($V_O = 2.5$ V)**

Figure 21. SVR vs. frequency ($V_O = V_{ADJ}$)

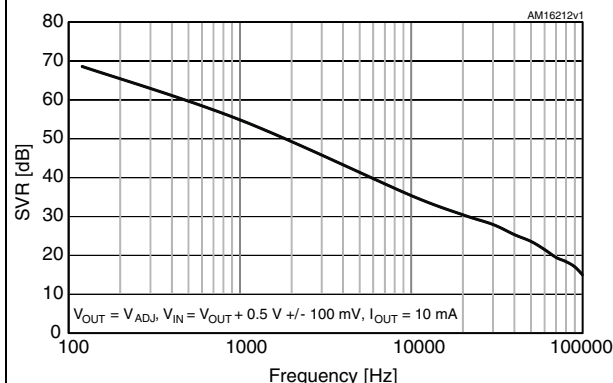


Figure 22. Output noise vs. frequency ($V_O = 2.5 \text{ V}$)

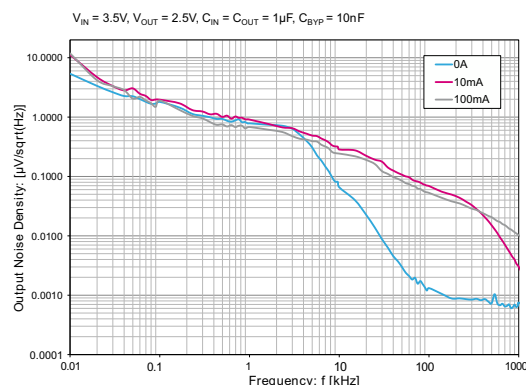


Figure 23. Output noise vs. frequency ($V_O = V_{ADJ}$)

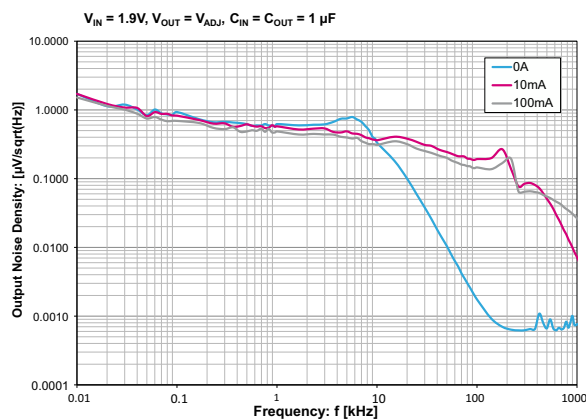
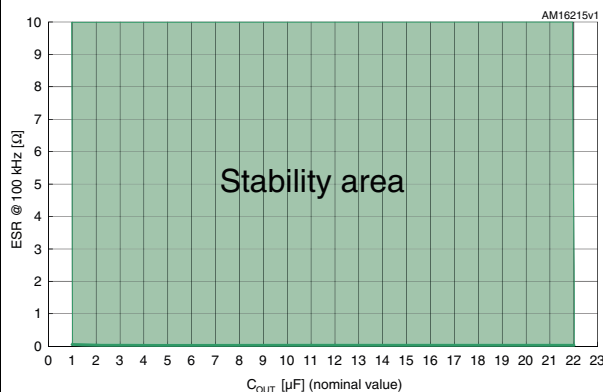
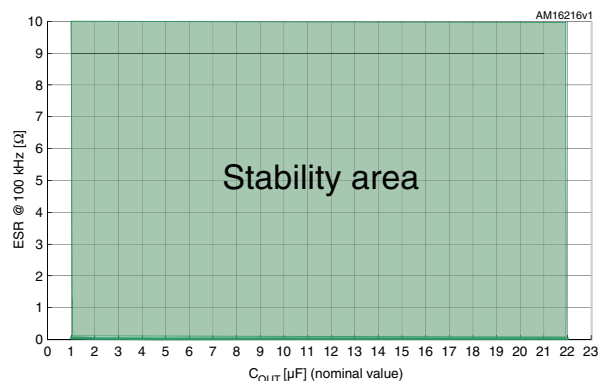


Figure 24. Stability region vs. C_{OUT} (fixed)



$V_{IN} = V_{EN} = 4 \text{ to } 5.5 \text{ V}$, $I_{OUT} = 10 \text{ mA to } 0.3 \text{ A}$, $C_{IN} = 1 \mu\text{F}$, $T_A = 25^\circ\text{C}$

Figure 25. Stability region vs C_{OUT} (adjust.)



$V_{IN} = V_{EN} = 1.9 \text{ to } 5.5 \text{ V}$, $I_{OUT} = 10 \text{ mA to } 0.3 \text{ A}$, $C_{IN} = 1 \mu\text{F}$, $T_A = 25^\circ\text{C}$

Figure 26. Line transient ($V_{OUT} = V_{ADJ}$)

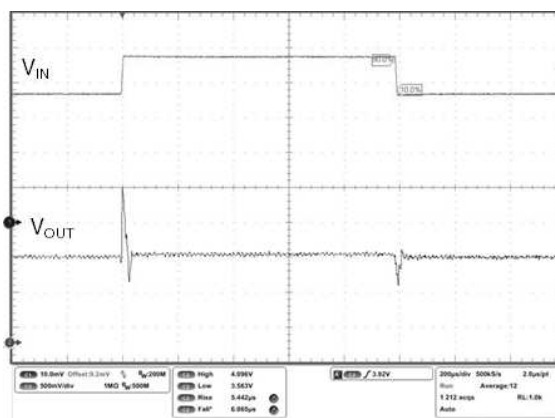
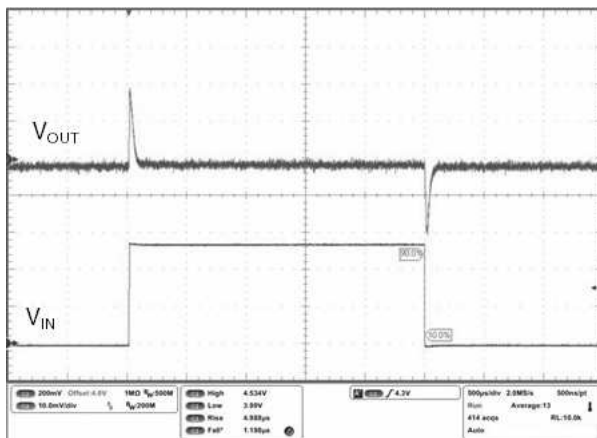


Figure 27. Line transient ($V_{OUT} = 3\text{ V}$)


$$V_{OUT} = 3 \text{ V}, V_{IN} = 4 \text{ V to } 4.5 \text{ V}, V_{EN} = 2 \text{ V}, I_{OUT} = 1 \text{ mA, NO}$$

$$C_{IN}, C_{OUT} = 1 \mu\text{F}, t_r = t_f = 5 \mu\text{s}$$

Figure 28. Load transient ($V_{OUT} = 3\text{ V}$)

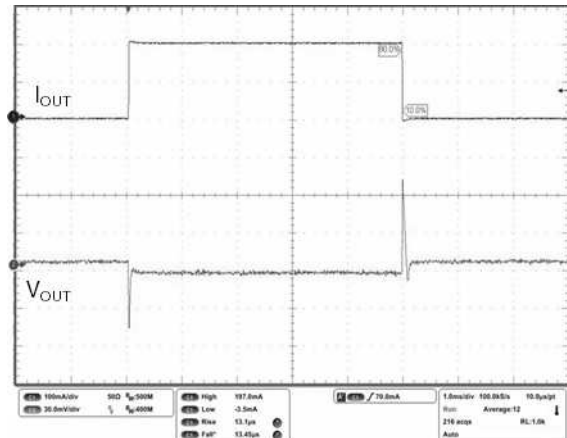
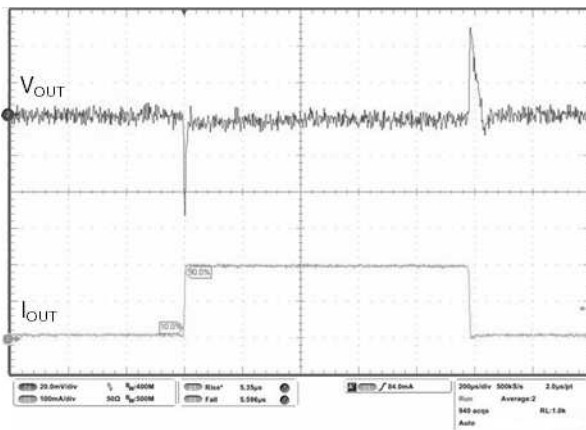
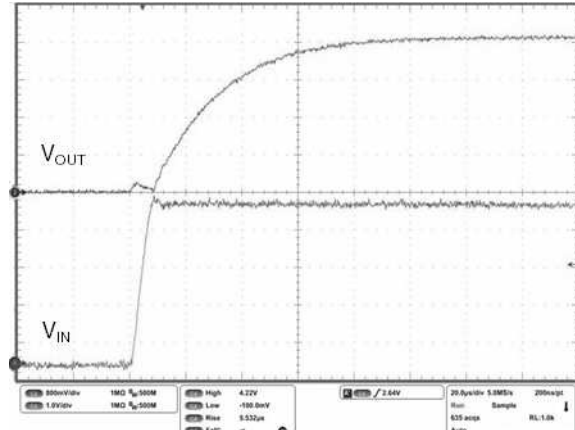

$$V_{OUT} = 3\text{ V}, V_{IN} = V_{EN} = 3.5\text{ V}, I_{OUT} = 1\text{ mA to } 200\text{ mA}, C_{OUT} = 1\text{ }\mu\text{F}, t_r = t_f = 5\text{ }\mu\text{s}$$

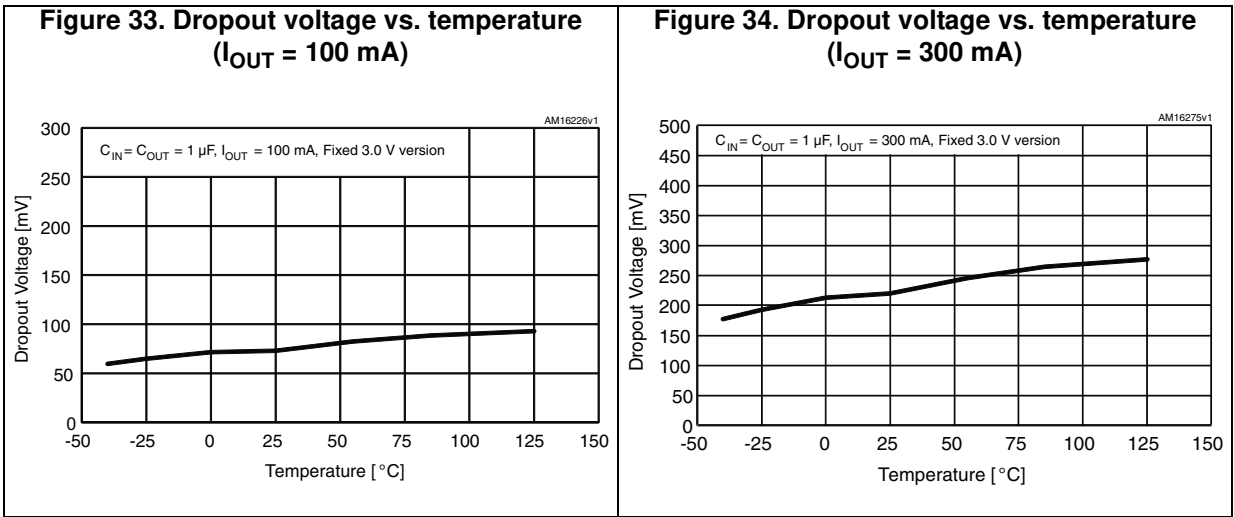
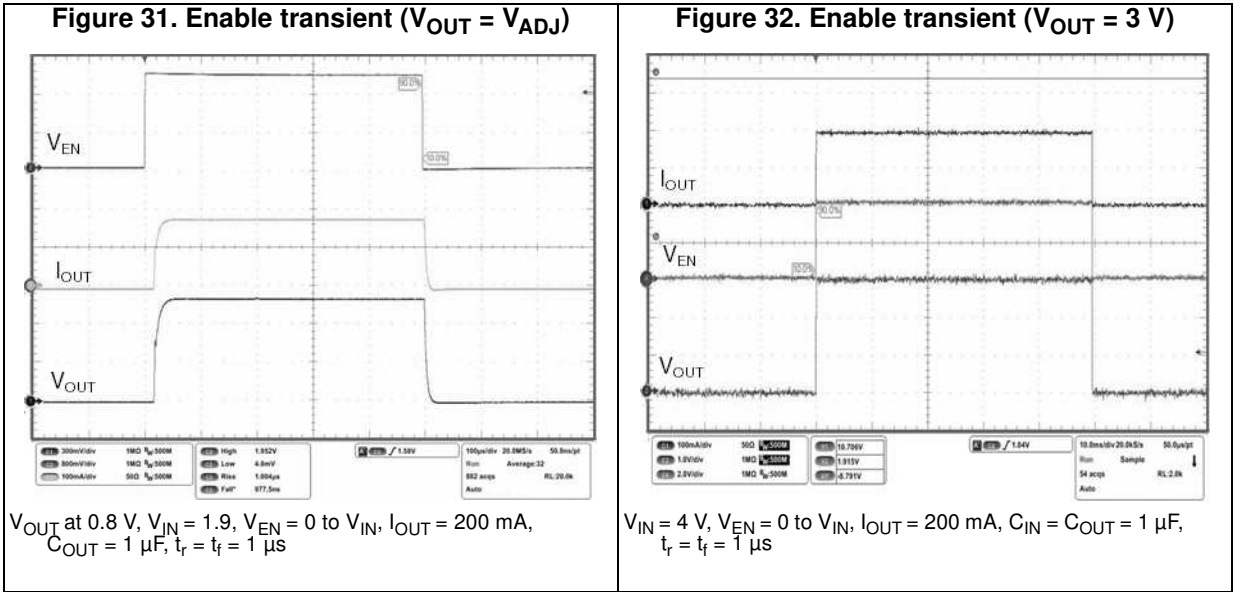
Figure 29. Load transient ($V_{OUT} = V_{ADJ}$)


$$V_{OUT} = V_{ADJ}, V_{IN} = V_{EN} = 3.5 \text{ V}, I_{OUT} = 1 \text{ mA to } 200 \text{ mA},$$

$$C_{OUT} = 1 \mu\text{F}, t_r = t_f = 5 \mu\text{s}$$

Figure 30. Startup transient


$$V_{OUT} = 3\text{ V}, V_{IN} = V_{EN} = 0\text{ to }4.2\text{ V}, I_{OUT} = 1\text{ mA}, C_{IN} = C_{OUT} = 1\text{ }\mu\text{F}, t_r = t_f = 5\text{ }\mu\text{s}$$



7 Package information

In order to meet environmental requirements, ST offers these devices in different grades of ECOPACK packages, depending on their level of environmental compliance. ECOPACK specifications, grade definitions and product status are available at: www.st.com. ECOPACK is an ST trademark.

7.1 SOT23-5L package information

Figure 35. SOT23-5L package outline

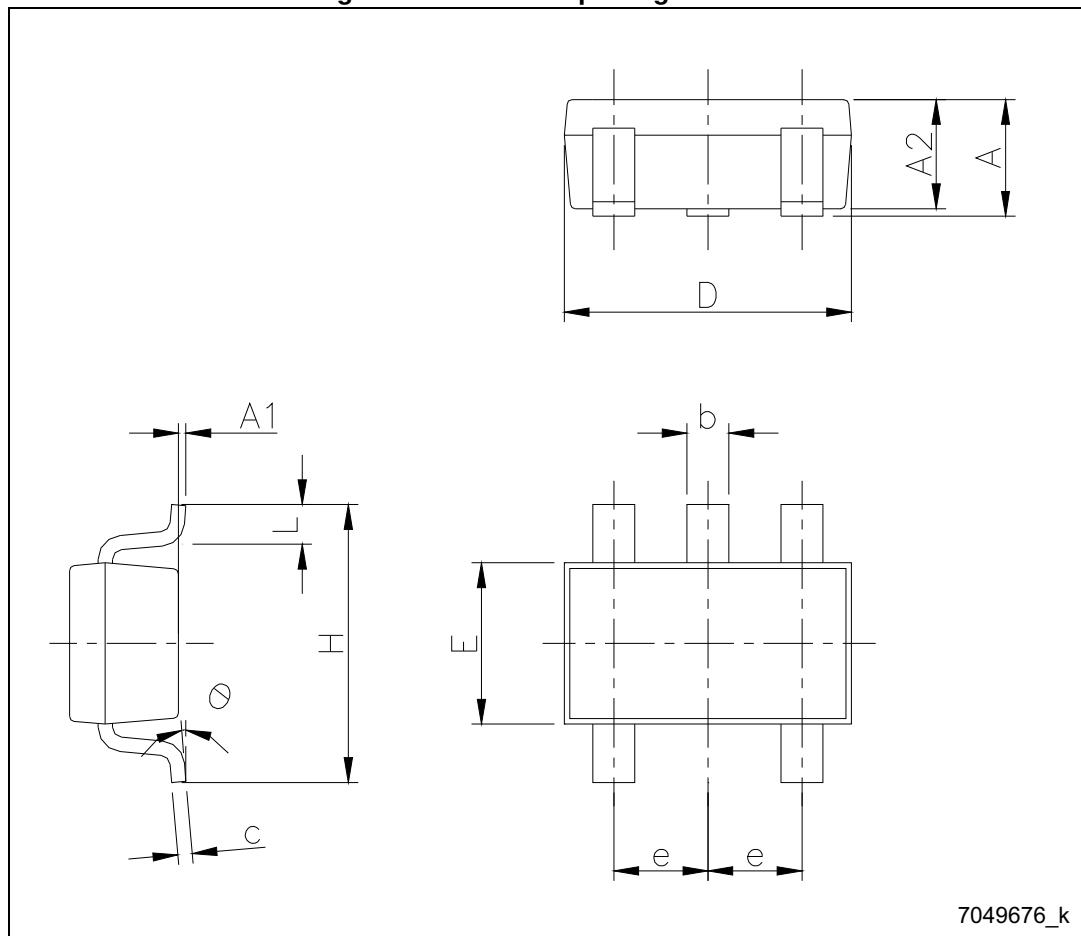
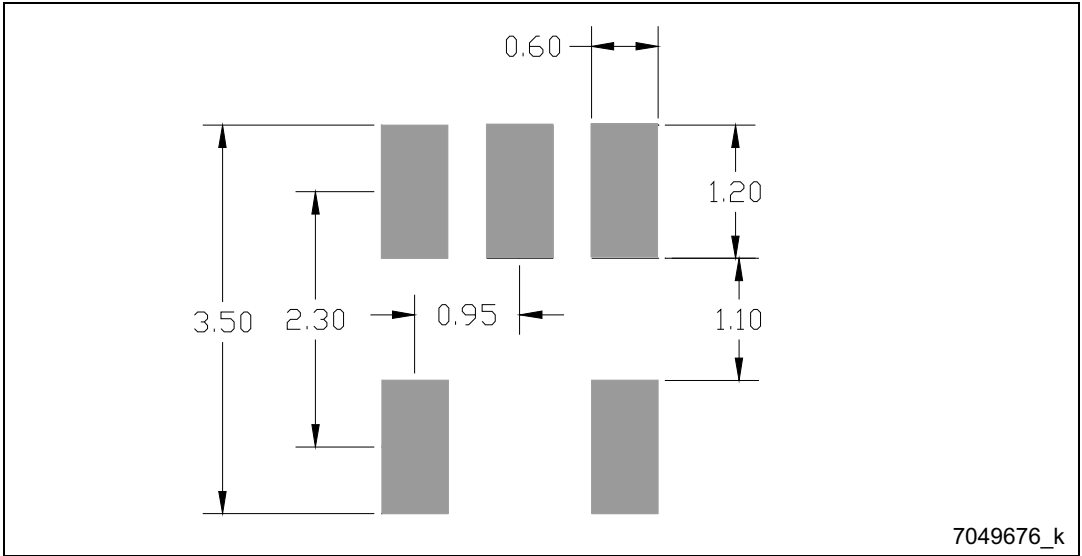


Table 6. SOT23-5L package mechanical data

Symbol	Dimensions (mm)		
	Min.	Typ.	Max.
A	0.90	-	1.45
A1	0	-	0.15
A2	0.90	-	1.30
b	0.30	-	0.50
c	2.09	-	0.20
D	-	2.95	-
E	-	1.60	-
e	-	0.95	-
H	-	2.80	-
L	0.30	-	0.60
θ	0	-	8

Figure 36. SOT23-5L footprint (dimensions in mm)



7.2 DFN6 1.2 x 1.3 package information

Figure 37. DFN6 1.2 x 1.3 package outline

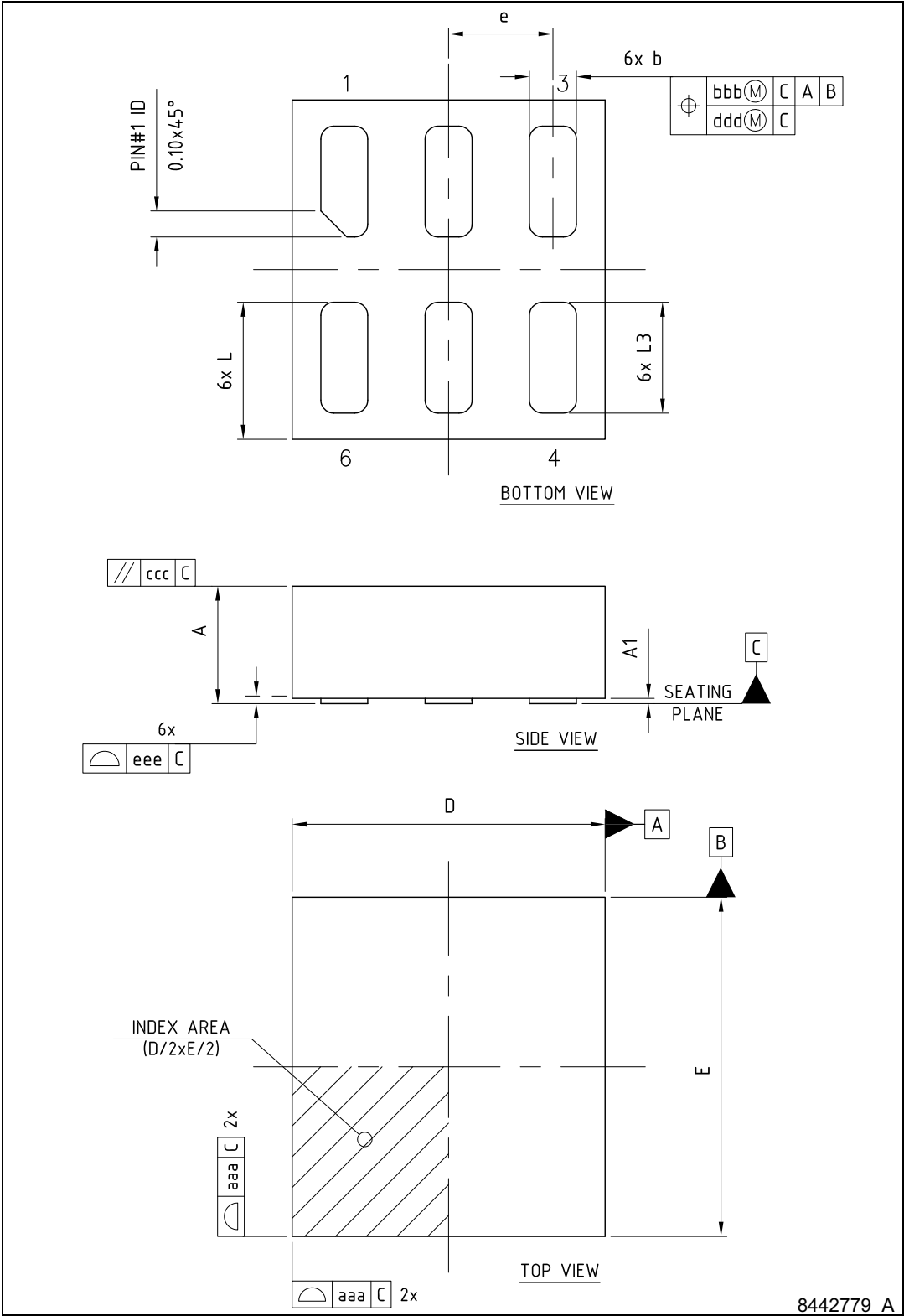
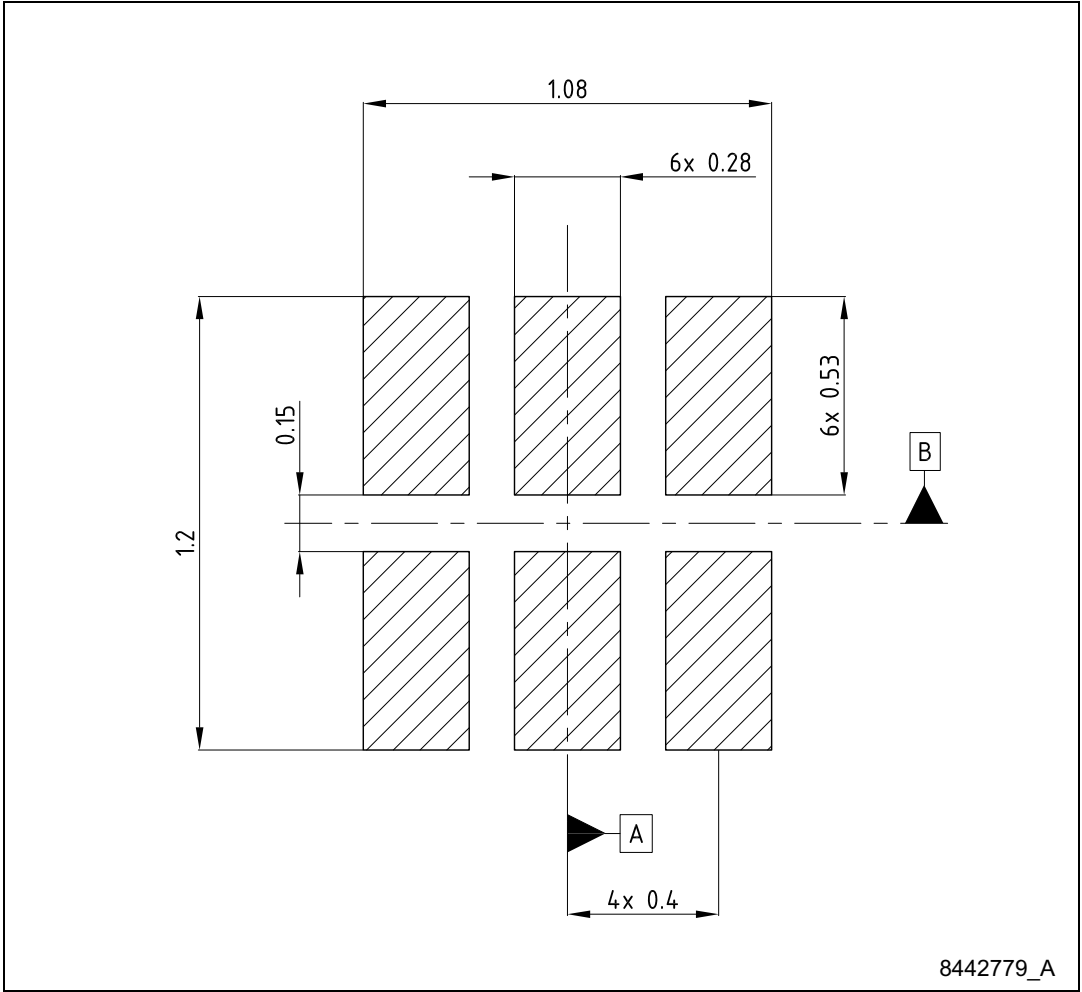


Table 7. DFN6 1.2 x 1.3 package mechanical data

Symbol	Dimensions (mm)		
	Min.	Typ.	Max.
A	0.41	0.45	0.50
A1	0.00	0.02	0.05
D	-	1.20	-
E	-	1.30	-
e	-	0.40	-
b	0.15	0.18	0.25
L	0.475	0.525	0.575
L3	0.375	0.425	0.475
aaa	-	0.05	-

Figure 38. DFN6 1.2 x 1.3 recommended footprint (dimensions in mm)



7.3 SOT323-5L package information

Figure 39. SOT323-5L package outline

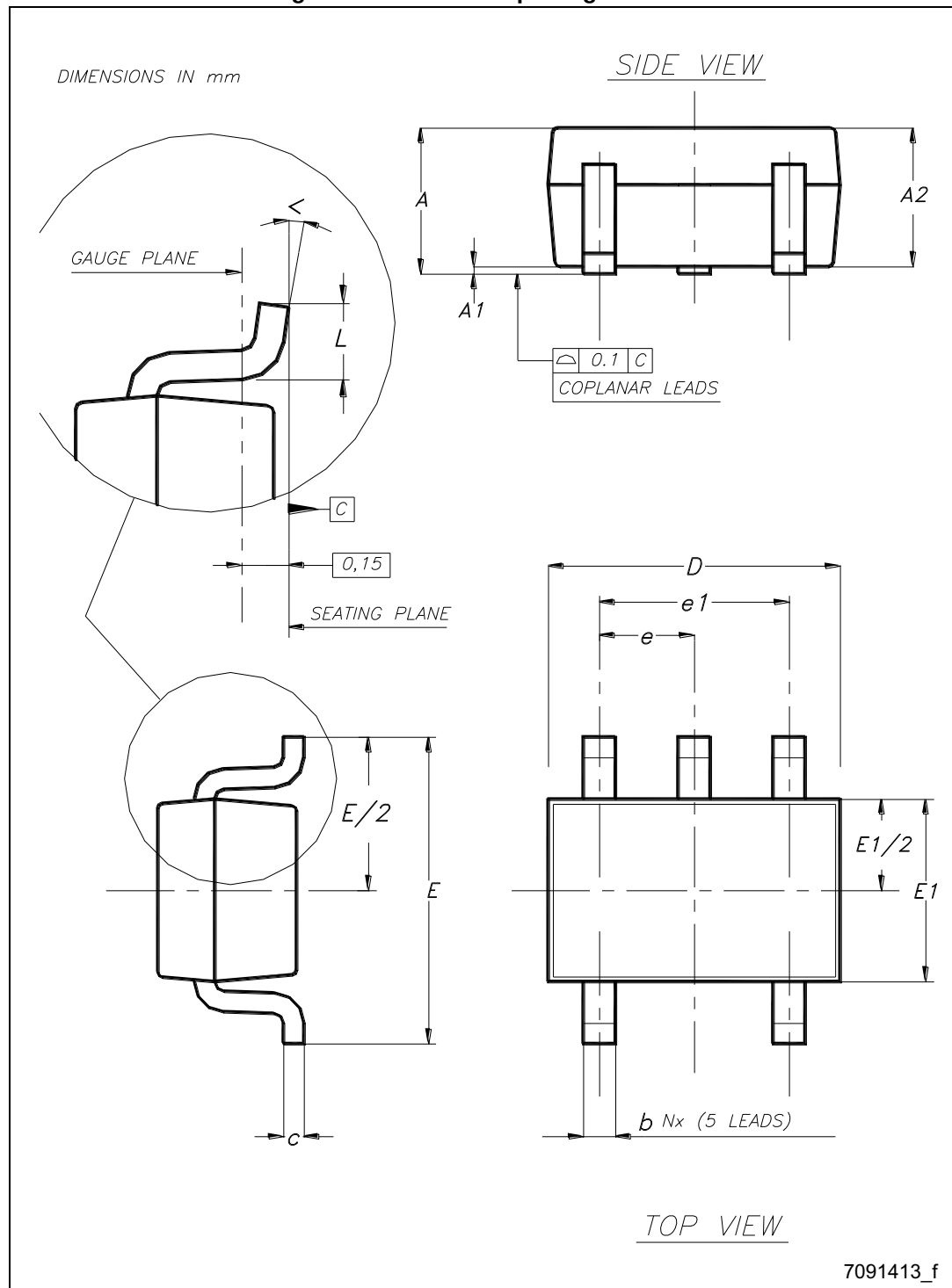


Table 8. SOT323-5L mechanical data

Symbol	Dimensions (mm)		
	Min.	Typ.	Max.
A	0.80	-	1.10
A1	0	-	0.10
A2	0.80	0.90	1
b	0.15	-	0.30
c	0.10	-	0.22
D	1.80	2	2.20
E	1.80	2.10	2.40
E1	1.15	1.25	1.35
e	-	0.65	-
e1	-	1.30	-
L	0.26	0.36	0.46
<	0°	-	8°

7.4 Packing information

7.5 SOT23-5L and SOT323-5L packing information

Figure 40. SOT23-5L and SOT323-5L tape and reel outline

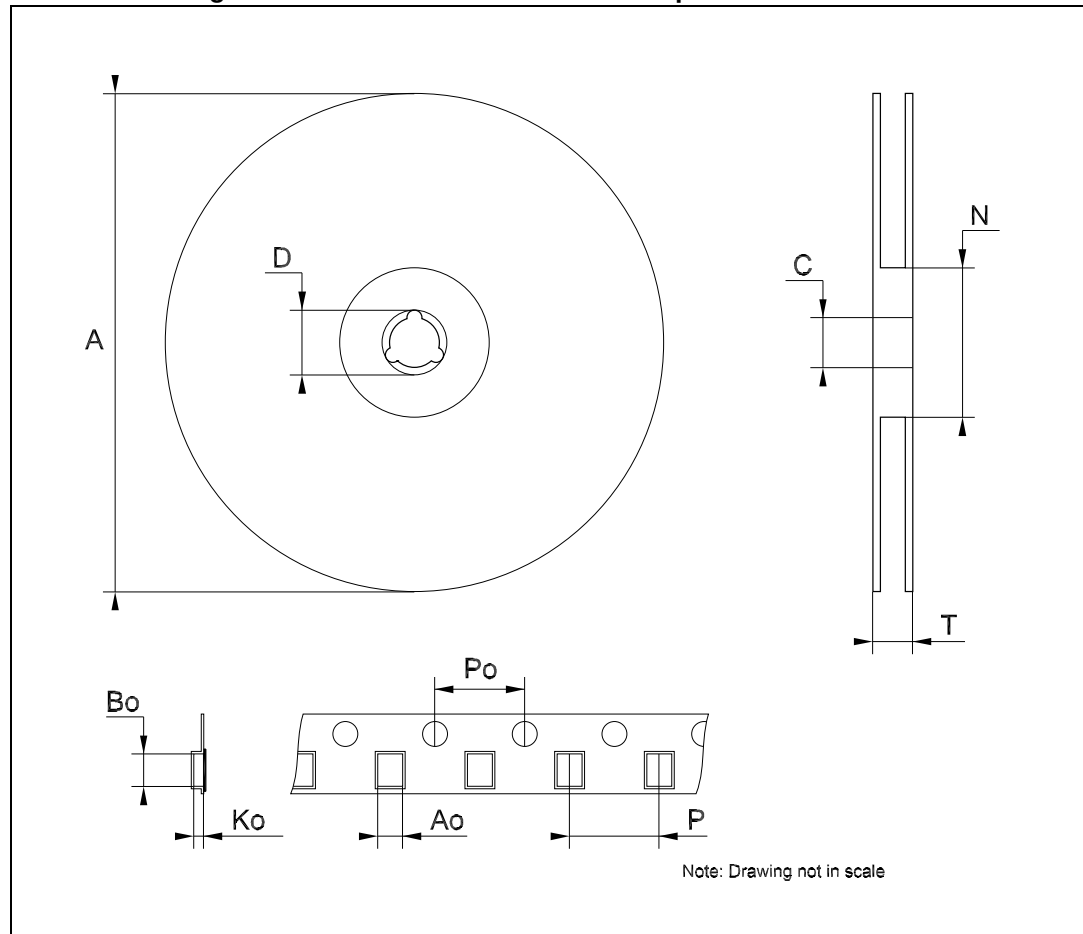


Table 9. SOT23-5L tape and reel mechanical data

Symbol	Dimensions (mm)		
	Min.	Typ.	Max.
A	-	-	180
C	12.8	13.0	13.2
D	20.2	-	-
N	60	-	-
T	-	-	14.4
Ao	3.13	3.23	3.33
Bo	3.07	3.17	3.27
Ko	1.27	1.37	1.47
Po	3.9	4.0	4.1
P	3.9	4.0	4.1

Table 10. SOT323-5L tape and reel mechanical data

Symbol	Dimensions (mm)		
	Min.	Typ.	Max.
A	175	180	185
C	12.8	13	13.2
D	20.2	-	-
N	59.5	60	60.5
T	-	-	14.4
Ao	-	2.25	-
Bo	-	3.17	-
Ko	-	1.2	-
Po	3.9	4.0	4.1
P	3.9	4.0	4.2

8 Order code

Table 11. Order code

Packages				Output voltages
SOT323-5L	SOT23-5L	SOT23-5L ⁽¹⁾	DFN6L	
LDK130C-R	LDK130M-R	-	LDK130PU-R	ADJ
LDK130C08R	LDK130M08R	-	LDK130PU08R	0.8 V
LDK130C10R	LDK130M10R	-	LDK130PU10R	1 V
-	-	LDK130M11RY	-	1.1 V
LDK130C12R	LDK130M12R	-	LDK130PU12R	1.2 V
LDK130C15R	LDK130M15R	LDK130M15RY	LDK130PU15R	1.5 V
LDK130C18R	LDK130M18R	LDK130M18RY	LDK130PU18R	1.8 V
-	-	LDK130M22RY	-	2.2 V
-	LDK130M25R	-	LDK130PU25R	2.5 V
-	-	LDK130M28RY	-	2.8 V
LDK130C29R	LDK130M29R	-	LDK130PU29R	2.9 V
-	-	-	LDK130PU30R	3 V
LDK130C32R	LDK130M32R	-	LDK130PU32R	3.2 V
LDK130C33R	LDK130M33R	LDK130M33RY	LDK130PU33R	3.3 V

1. Automotive grade according to AEC-Q100 level 1.

Table 12. Marking

Order code	Package	Output voltage	Marking
LDK130MxxR	SOT23-5L	x.x V	Kxx
LDK130CxxR	SOT323-5L	x.x V	Kxx
LDK130PUxxR	DFN-6L	x.x V	xx
LDK130M-R	SOT23-5L	Adj	KAD
LDK130C-R	SOT323-5L	Adj	KAD
LDK130PU-R	DFN-6L	Adj	AD
LDK130MxxRY	SOT23-5L	x.x V	KxxY

9 Revision history

Table 13. Document revision history

Date	Revision	Changes
31-Jan-2013	1	Initial release
25-Oct-2013	2	RPN LDK130xx changed to LDK130. Updated the Features and the Description in cover page. Canceled Table1: Device summary. Updated <i>Section 7: Package mechanical data</i> , <i>Table 2: Absolute maximum ratings</i> and <i>Table 11: Order codes</i> . Added <i>Section 8: Packaging mechanical data</i> . Minor text changes.
10-Mar-2014	3	Updated <i>Table 11: Order codes</i> .
07-Sep-2017	4	Updated main title <i>on page 1</i> , <i>Section : Features on page 1</i> , <i>Table 11 on page 25</i> and <i>Table 12 on page 25</i> (added "automotive grade level 1" - AEC-Q100 qualified). Updated <i>Features</i> (replaced "max. 120 μ A" by "typ. 30 μ A"). Updated <i>Section : Applications on page 1</i> . Minor modifications throughout document.
26-Oct-2017	5	Updated LDK130M28RY in <i>Table 11: Order codes</i>
17-Jan-2018	6	Updated Figure 22 and Figure 23.
11-Oct-2019	7	Added new part numbers LDK130M11RY and LDK130M22RY in <i>Table 11: Order code</i> .
03-Mar-2020	8	Added new part numbers LDK130C12R, LDK130M12R and LDK130PU12R in <i>Table 11: Order code</i> .

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