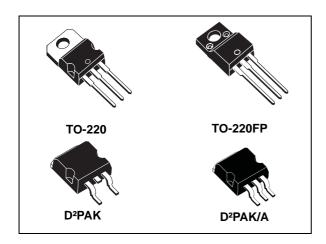


3 A low drop positive voltage regulator: adjustable and fixed

Datasheet - production data



Unlike PNP regulators, where a part of the output current is wasted as quiescent current, the LD1085 quiescent current flows into the load, thus increase efficiency. Only a 10 μ F minimum capacitor is need for stability.

The device is supplied in TO-220, TO-220FP, D²PAK and D²PAK/A packages. On-chip trimming allows the regulator to reach a very tight output voltage tolerance, within ± 1% at 25 °C.

Features

- Typical dropout 1.3 V (at 3 A)
- Three terminal adjustable or fixed output voltage 1.8 V, 2.5 V, 3.3 V, 5 V
- Guaranteed output current up to 3 A
- Output tolerance ± 1% at 25 °C and ± 2% in full temperature range
- Internal power and thermal limit
- Wide operating temperature range -40 °C to 125 °C
- Package available: TO-220, TO-220FP, D²PAK, D²PAK/A
- Pinout compatibility with standard adjustable VREG

Description

The LD1085 is a low drop voltage regulator able to provide up to 3 A of output current. Dropout is guaranteed at a maximum of 1.2 V at the maximum output current, decreasing at lower loads. The LD1085 is pin-to-pin compatible with the older 3-terminal adjustable regulators, but offers better performance in terms of drop and output tolerance.

Contents LD1085

Contents

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3	Maximum ratings
4	Application schematic 6
5	Electrical characteristics
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7	Package mechanical data16
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9	Order codes
10	Revision history

LD1085 Diagram

1 Diagram

PIQUIE 1. SCHEMAL GIAGRAM

VIN

THERMAL PROTECTION

ADJ

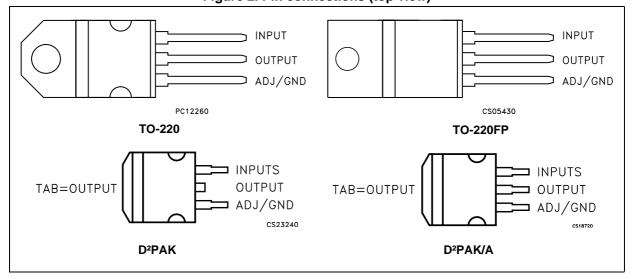
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Figure 1. Schematic diagram

Pin configuration LD1085

2 Pin configuration

Figure 2. Pin connections (top view)



LD1085 Maximum ratings

3 Maximum ratings

Table 1. Absolute maximum ratings

Symbol	Parameter	Value	Unit
VI	DC input voltage	30	V
Io	Output current	Internally limited	mA
P _D	Power dissipation	Internally limited	mW
T _{STG}	Storage temperature range	-55 to +150	°C
T _{OP}	Operating junction temperature range	-40 to +125	°C

Note:

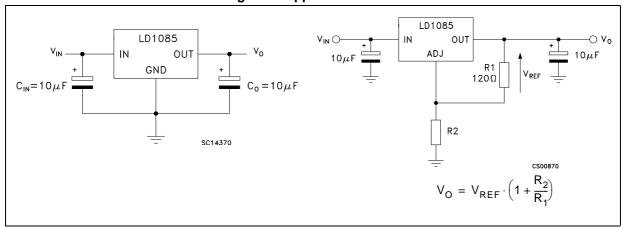
Absolute maximum ratings are those values beyond which damage to the device may occur. Functional operation under these condition is not implied

Table 2. Thermal data

Symbol	Parameter	TO-220	TO-220FP	D²PAK D²PAK/A	Unit
R _{thJC}	Thermal resistance junction-case	3	5	3	°C/W
R _{thJA}	Thermal resistance junction-ambient	50	60	62.5	°C/W

4 Application schematic

Figure 3. Application circuit



5 Electrical characteristics

 V_I = 4.8 V, C_I = C_O =10 $\mu F,\, T_A$ = -40 to 125 °C, unless otherwise specified.

Table 3. Electrical characteristics of LD1085#18

Symbol	Parameter	Test condition	Min.	Тур.	Max.	Unit
V	Output voltage ⁽¹⁾	$I_{O} = 0 \text{ mA}, T_{J} = 25^{\circ}\text{C}$	1.782	1.8	1.818	V
Vo	Output voltage V	$I_O = 0 \text{ to } 3 \text{ A}, V_I = 3.4 \text{ to } 30 \text{ V}$	1.764	1.8	1.836	V
4)/	Line regulation	$I_O = 0$ mA, $V_I = 3.4$ to 18 V $T_J = 25$ °C		0.2	4	mV
ΔV_{O}	Line regulation	$I_O = 0 \text{ mA}, V_I = 3.4 \text{ to } 15 \text{ V}$		0.4	4	mV
4)/	Load regulation	$I_{O} = 0 \text{ to } 3 \text{ A}, T_{J} = 25^{\circ}\text{C}$		2	10	mV
ΔV_{O}	Load regulation	I _O = 0 to 3 A		4	20	mV
V _d	Dropout voltage	I _O = 3 A		1.3	1.5	V
Iq	Quiescent current	V _I ≤ 30 V		5	10	mA
	Short-circuit current	V _I - V _O = 5 V	3.2	4.5		Α
I _{sc}	Short-circuit current	V _I - V _O = 25 V	0.2	0.5		Α
	Thermal regulation	T _A = 25°C, 30 ms pulse		0.008	0.04	%/W
SVR	Supply voltage rejection	$f = 120 \text{ Hz}, C_O = 25 \mu\text{F}, I_O = 3 \text{ A} $ $V_I = 7.5 \pm 3 \text{ V}$	60	72		dB
eN	RMS output noise voltage (% of V_{O})	T _A = 25°C, f =10 Hz to 10 kHz		0.003		%
S	Temperature stability			0.5		%
S	Long term stability	T _A = 125°C, 1000 Hrs		0.5		%

^{1.} See short-circuit current curve for available output current at fixed dropout.

Electrical characteristics LD1085

 V_I = 5.5 V, C_I = C_O =10 $\mu F,\, T_A$ = -40 to 125 °C, unless otherwise specified.

Table 4. Electrical characteristics of LD1085#25

Symbol	Parameter	Test condition	Min.	Тур.	Max.	Unit
V	Output voltage (1)	$I_{O} = 0 \text{ mA}, T_{J} = 25^{\circ}\text{C}$	2.475	2.5	2.525	V
Vo	Output voltage ()	I _O = 0 to 3 A, V _I = 4.1 to 30 V	2.45	2.5	2.55	V
4)/	Line regulation	$I_O = 0$ mA, $V_I = 4.1$ to 18 V, $T_J = 25$ °C		0.2	4	mV
ΔV_{O}	Line regulation	$I_O = 0 \text{ mA}, V_I = 4.1 \text{ to } 18 \text{ V}$		0.4	4	mV
4)/	Load regulation	I _O = 0 to 3 A, T _J = 25°C		2	10	mV
ΔV _O	Load regulation	I _O = 0 to 3 A		4	20	mV
V _d	Dropout voltage	I _O = 3 A		1.3	1.5	V
Iq	Quiescent current	V _I ≤ 30 V		5	10	mA
	Short-circuit current	V _I - V _O = 5 V	3.2	4.5		Α
I _{sc}	Short-circuit current	V _I - V _O = 25 V	0.2	0.5		Α
	Thermal regulation	T _A = 25°C, 30ms pulse		0.008	0.04	%/W
SVR	Supply voltage rejection	$f = 120 \text{ Hz}, C_O = 25 \mu\text{F}, I_O = 3 \text{ A}$ $V_I = 7.5 \pm 3 \text{ V}$	60	72		dB
eN	RMS output noise voltage (% of V_O)	T _A = 25°C, f =10 Hz to 10 kHz		0.003		%
S	Temperature stability			0.5		%
S	Long term stability	T _A = 125°C, 1000 Hrs		0.5		%

^{1.} See short-circuit current curve for available output current at fixed dropout.

 V_I = 6.3 V, C_I = C_O =10 $\mu F,\, T_A$ = -40 to 125 °C, unless otherwise specified.

Table 5. Electrical characteristics of LD1085#33

Symbol	Parameter	Test condition	Min.	Тур.	Max.	Unit
V	Output voltage ⁽¹⁾	$I_{O} = 0 \text{ mA}, T_{J} = 25^{\circ}\text{C}$	3.267	3.3	3.333	V
V _O	Output voltage V	$I_O = 0 \text{ to } 3 \text{ A}, V_I = 4.9 \text{ to } 30 \text{ V}$	3.234	3.35	3.366	V
A\/ .	Line regulation	$I_O = 0 \text{ mA}, V_I = 4.9 \text{ to } 18 \text{ V}, T_J = 25^{\circ}\text{C}$		0.5	6	mV
ΔV_{O}	Line regulation	$I_O = 0 \text{ mA}, V_I = 4.9 \text{ to } 18 \text{ V}$		1	6	mV
41/	Load regulation	$I_{O} = 0 \text{ to } 3 \text{ A, } T_{J} = 25^{\circ}\text{C}$		3	15	mV
ΔV_{O}	Load regulation	I _O = 0 to 3 A		7	20	mV
V _d	Dropout voltage	I _O = 3 A		1.3	1.5	V
Iq	Quiescent current	V _I ≤ 30 V		5	10	mA
	Short-circuit current	V _I - V _O = 5 V	3.2	4.5		Α
I _{sc}	Short-circuit current	$V_I - V_O = 25 \text{ V}$	0.2	0.5		Α
	Thermal regulation	T _A = 25°C, 30 ms pulse		0.008	0.04	%/W
SVR	Supply voltage rejection	$f = 120 \text{ Hz}, C_O = 25 \mu\text{F}, I_O = 3 \text{ A}$ $V_I = 8.3 \pm 3 \text{ V}$	60	72		dB
eN	RMS output noise voltage (% of V_O)	T _A = 25°C, f =10 Hz to 10 kHz		0.003		%
S	Temperature stability			0.5		%
S	Long term stability	T _A = 125°C, 1000 Hrs		0.5		%

^{1.} See short-circuit current curve for available output current at fixed dropout.

Electrical characteristics LD1085

 V_{I} = 8 V, C_{I} = C_{O} =10 $\mu F,\, T_{A}$ = -40 to 125 °C, unless otherwise specified.

Table 6. Electrical characteristics of LD1085#50

Symbol	Parameter	Test condition	Min.	Тур.	Max.	Unit
V.	Output voltage (1)	$I_{O} = 0 \text{ mA}, T_{J} = 25^{\circ}\text{C}$	4.95	5	5.05	V
Vo	Output voltage V	$I_{O} = 0 \text{ to } 3 \text{ A}, V_{I} = 6.6 \text{ to } 30 \text{ V}$	4.9	5	5.1	V
4)/	Line regulation	$I_O = 0$ mA, $V_I = 6.6$ to 20 V, $T_J = 25$ °C		0.5	10	mV
ΔV _O	Line regulation	I _O = 0 mA, V _I = 6.6 to 20 V		1	10	mV
4)/	Lood regulation	I _O = 0 to 3 A, T _J = 25°C		5	10	mV
ΔV _O	Load regulation	I _O = 0 to 3 A		10	35	mV
V _d	Dropout voltage	I _O = 3 A		1.3	1.5	V
Iq	Quiescent current	V _I ≤ 30 V		5	10	mA
		V _I - V _O = 5 V	3.2	4.5		Α
I _{sc}	Short-circuit current	V _I - V _O = 25 V	0.2	0.5		Α
	Thermal regulation	T _A = 25°C, 30 ms pulse		0.008	0.04	%/W
SVR	Supply voltage rejection	$f = 120 \text{ Hz}, C_O = 25 \mu\text{F}, I_O = 3 \text{ A}$ $V_I = 10 \pm 3 \text{ V}$	60	72		dB
eN	RMS output noise voltage (% of V_O)	T _A = 25°C, f = 10 Hz to 10 kHz		0.003		%
S	Temperature stability			0.5		%
S	Long term stability	T _A = 125°C, 1000 Hrs		0.5		%

^{1.} See short-circuit current curve for available output current at fixed dropout.

 V_I = 4.25 V, C_I = C_O =10 $\mu F,\, T_A$ = -40 to 125 °C, unless otherwise specified.

Table 7. Electrical characteristics of LD1085#

Symbol	Parameter	Test condition	Min.	Тур.	Max.	Unit
	Reference voltage ⁽¹⁾	I _O = 10 mA T _J = 25°C	1.237	1.25	1.263	V
V _{ref}	Reference voltage (*)	$I_O = 10 \text{ mA to } 3 \text{ A}, V_I = 2.85 \text{ to } 30 \text{ V}$	1.225	1.25	1.275	V
ΔV _O	Line regulation	$I_O = 10 \text{ mA}, V_I = 2.85 \text{ to } 16.5 \text{ V},$ $T_J = 25^{\circ}\text{C}$		0.015	0.2	%
		I _O = 10 mA, V _I = 2.85 to 16.5 V		0.035	0.2	%
4)/	Lood regulation	$I_{O} = 10 \text{ mA to } 3 \text{ A}, T_{J} = 25^{\circ}\text{C}$		0.1	0.3	%
ΔV _O	Load regulation	I _O = 0 to 3 A		0.2	0.4	%
V _d	Dropout voltage	I _O = 3 A		1.3	1.5	V
I _{O(min)}	Minimum load current	V _I = 30 V		3	10	mA
	Ob and aircraft account	$V_I - V_O = 5 V$	5.5	6.5		Α
I _{sc}	Short-circuit current	V _I - V _O = 25 V	0.5	0.7		Α
	Thermal regulation	T _A = 25°C, 30ms pulse		0.003	0.015	%/W
SVR	Supply voltage rejection	f = 120 Hz, C_O = 25 μF, C_{ADJ} = 25 μF, I_O = 3 A, V_I = 6.25 ± 3 V	60	72		dB
I _{ADJ}	Adjust pin current	$V_{I} = 4.25 \text{ V}, I_{O} = 10 \text{ mA}$		55	120	μA
ΔI_{ADJ}	Adjust pin current change (1)	I_{O} = 10 mA to 3 A, V_{I} = 2.85 to 16.5 V		0.2	5	μA
eN	RMS output noise voltage (% of V_O)	T _A = 25°C, f =10 Hz to 10 kHz		0.003		%
S	Temperature stability			0.5		%
S	Long term stability	T _A = 125°C, 1000 Hrs		0.5		%

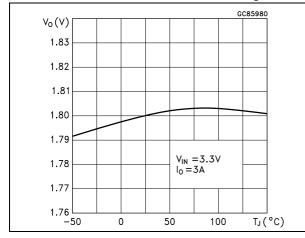
^{1.} See short-circuit current curve for available output current at fixed dropout.

Typical characteristics LD1085

6 Typical characteristics

Unless otherwise specified T_J = 25 °C, C_I = C_O = 10 μF .

Figure 4. Output voltage vs. temp. ($I_0 = 3 \text{ A}$) Figure 5. Output voltage vs. temp. ($I_0 = 0 \text{ mA}$)



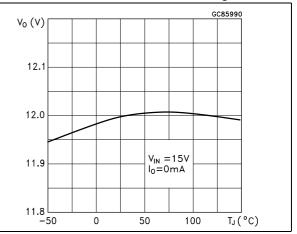
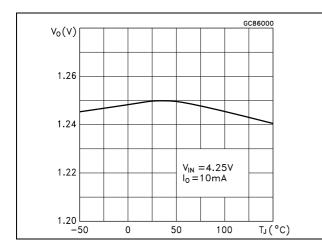


Figure 6. Output voltage vs. temp. $(I_0 = 10 \text{ mA})$

Figure 7. Short-circuit current vs. dropout voltage



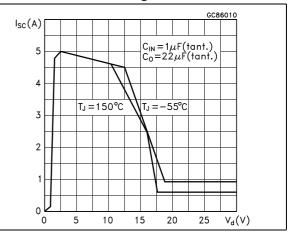
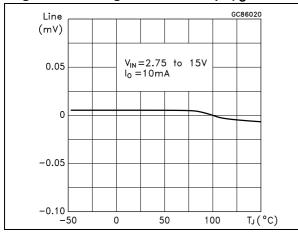


Figure 8. Line regulation vs. temp. $(I_0 = 10 \text{ mA})$ Figure 9. Load regulation vs. temperature



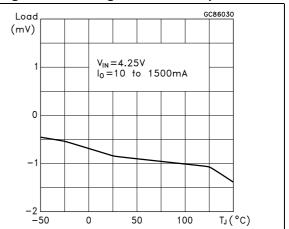
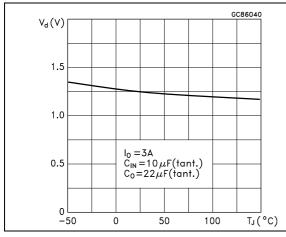


Figure 10. Dropout voltage vs. temperature

Figure 11. Dropout voltage vs. output current



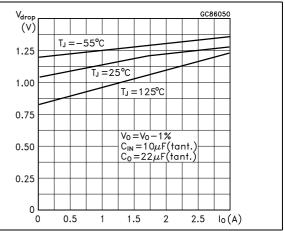
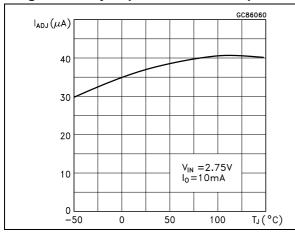


Figure 12. Adjust pin current vs. temperature

Figure 13. Quiescent current vs. temperature



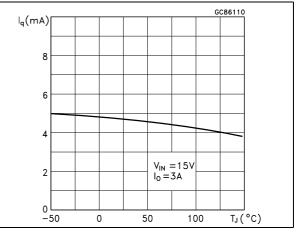
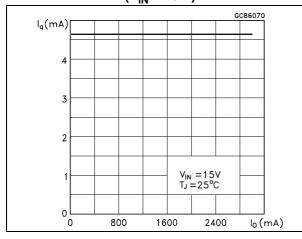


Figure 14. Line regulation vs. temperature $(V_{IN} = 15 \text{ V})$

Figure 15. Supply voltage rejection vs. output current



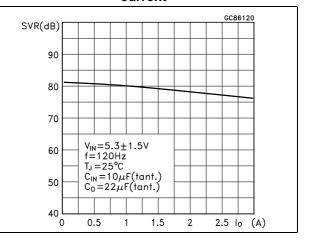
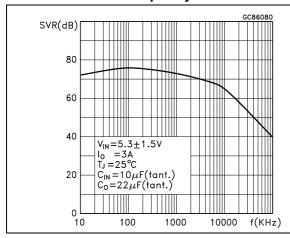


Figure 16. Supply voltage rejection vs. frequency

Figure 17. Supply voltage rejection vs. temperature



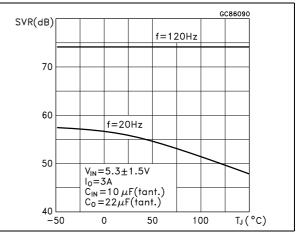
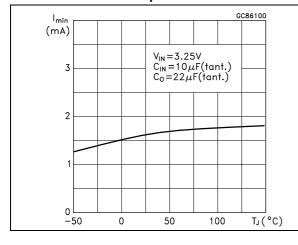


Figure 18. Minimum load current vs. temperature

Figure 19. Stability, $V_O = 1.8 V$



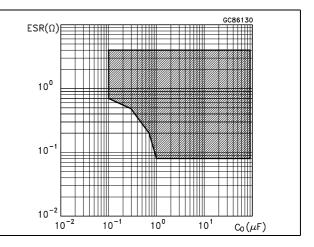


Figure 20. Stability, V_O = 12 V

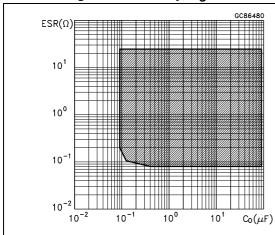


Figure 21. Line transient

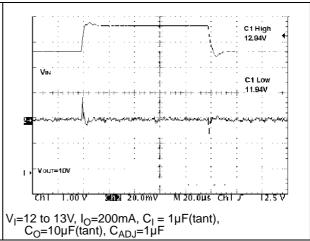


Figure 22. Load transient

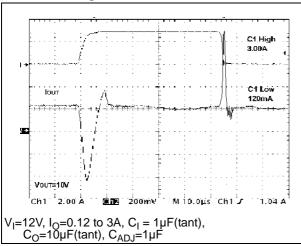
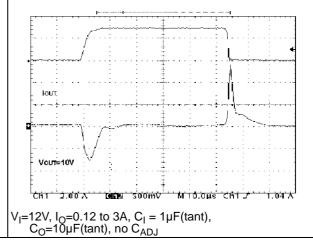


Figure 23. Load transient (No C_{ADJ})



7 Package mechanical data

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.

Table 8. TO-220 mechanical data

Dim		mm	
Dim.	Min.	Тур.	Max.
А	4.40		4.60
b	0.61		0.88
b1	1.14		1.70
С	0.48		0.70
D	15.25		15.75
E	10		10.40
е	2.40		2.70
e1	4.95		5.15
F	0.51		0.60
H1	6.20		6.60
J1	2.40		2.72
L	13		14
L1	3.50		3.93
L20		16.40	
L30		28.90	
ØP	3.75		3.85
Q	2.65		2.95

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øΡ Ξ Γ 2 J1 Gate Note 9-10 b1 (x3) С b (x3) e1 8174627_revD

Figure 24. TO-220 drawing

Table 9. TO-220FP mechanical data

Dim	mm				
Dim.	Min.	Тур.	Max.		
А	4.4		4.6		
В	2.5		2.7		
D	2.5		2.75		
E	0.45		0.7		
F	0.75		1		
F1	1.15		1.70		
F2	1.15		1.70		
G	4.95		5.2		
G1	2.4		2.7		
Н	10		10.4		
L2		16			
L3	28.6		30.6		
L4	9.8		10.6		
L5	2.9		3.6		
L6	15.9		16.4		
L7	9		9.3		
Dia	3		3.2		

Figure 25. TO-220FP drawing

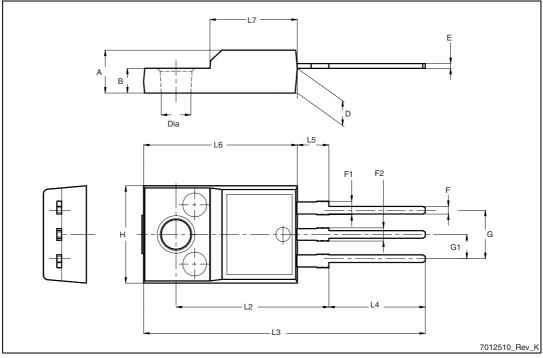


Table 10. D²PAK mechanical data

Dim		mm	
Dim.	Min.	Тур.	Max.
А	4.40		4.60
A1	0.03		0.23
b	0.70		0.93
b2	1.14		1.70
С	0.45		0.60
c2	1.23		1.36
D	8.95		9.35
D1	7.50		
Е	10		10.40
E1	8.50		
е		2.54	
e1	4.88		5.28
Н	15		15.85
J1	2.49		2.69
L	2.29		2.79
L1	1.27		1.40
L2	1.30		1.75
R		0.4	
V2	0°		8°

20/27

SEATING PLANE
COPLANARITY A1

R

GAUGE PLANE
V2

0079457. T

Figure 26. D²PAK drawing

Table 11. D²PAK/A mechanical data

Di		mm	
Dim.	Min.	Тур.	Max.
Α	4.40		4.60
A1	0.03		0.23
b	0.70		0.93
b2	1.14		1.70
С	0.45		0.60
c2	1.23		1.36
D	8.95		9.35
D1	7.50		
Е	10		10.40
E1	8.50		
е		2.54	
e1	4.88		5.28
Н	15		15.85
J1	2.49		2.69
L	2.29		2.79
L1	1.27		1.40
R		0.4	
V2	0°		8°

TYPE "A" STD-ST c2 Ď1 (3x) b_ THERMAL PAD -**b2** (2x) SEATING PLANE COPLANARITY A1 0.25 GAUGE PLANE 7106164_E

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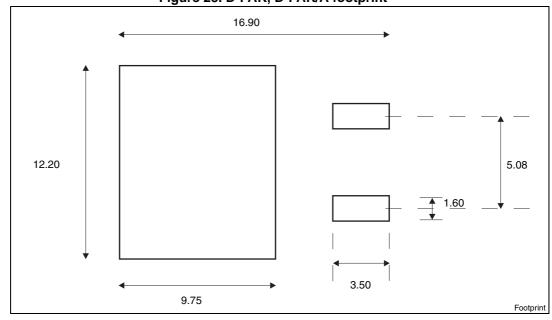
Figure 27. D²PAK/A mechanical data

8 Packaging mechanical data

Table 12. D2PAK, D2PAK/A tape and reel mechanical data

	Таре			Reel		
Dim.	mm		Dim.	mm		
	Min.	Max.	– Dim.	Min.	Max.	
A0	10.5	10.7	А		330	
В0	15.7	15.9	В	1.5		
D	1.5	1.6	С	12.8	13.2	
D1	1.59	1.61	D	20.2		
Е	1.65	1.85	G	24.4	26.4	
F	11.4	11.6	N	100		
K0	4.8	5.0	Т		30.4	
P0	3.9	4.1				
P1	11.9	12.1		Base qty 1000		
P2	1.9	2.1		Bulk qty 1000		
R	50					
Т	0.25	0.35				
W	23.7	24.3				

Figure 28. D²PAK, D²PAK/A footprint^(a)



a. All dimensions are in millimeters



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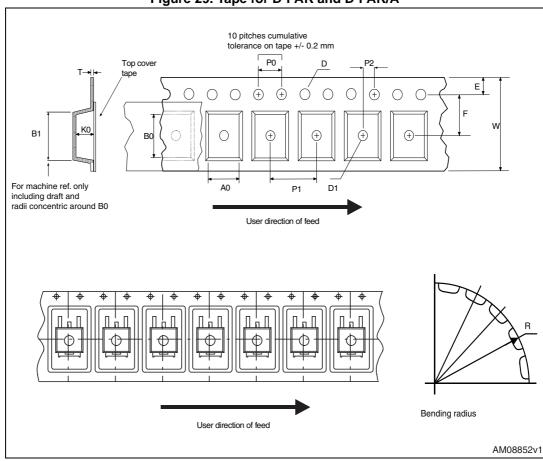
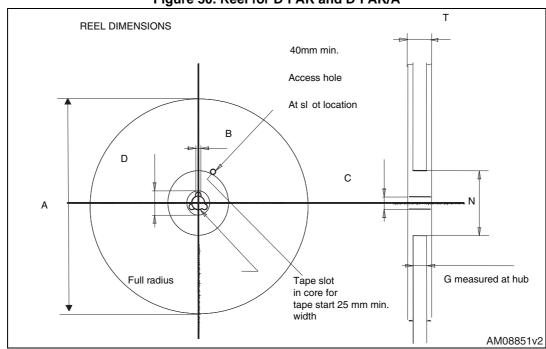


Figure 29. Tape for D2PAK and D2PAK/A





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LD1085 Order codes

9 Order codes

Table 13. Order codes

Packages						
TO-220	TO-220FP	D²PAK	D²PAK/A (T&R)	voltage		
			LD1085D2M18R	1.8 V		
			LD1085D2M25R	2.5 V		
		LD1085D2T33R	LD1085D2M33R	3.3 V		
LD1085V50				5.0 V		
LD1085V	LD1085P	LD1085D2T-R	LD1085D2M-R	ADJ		

Revision history LD1085

10 Revision history

Table 14. Document revision history

Date	Revision	Changes	
07-Oct-2004	12	Mistake order codes - Table 1.	
08-Feb-2005 13		Mistake U.M. load regulation - V ==> mV.	
01-Mar-2005	14	Version 1.2 V removed.	
22-May-2006 15		Order codes has been updated and new template.	
10-Nov-2006 16		Add package DPAK, typo on V _O test value in tables 3, 4 and 11.	
04-Apr-2007 17		Order codes updated.	
07-Jun-2007	18	Order codes updated.	
05-Dec-2007	19	Modified: Table 13.	
29-Jan-2008	20	Added new order codes for Automotive grade products see <i>Table 13 on page 25</i> .	
18-Feb-2008	21	Modified: Table 13 on page 25.	
09-Apr-2008	22	Modified: Table 13 on page 25.	
14-Jul-2008	23	Modified: Table 13 on page 25.	
22-Aug-2008	24	Modified: Table 2 on page 5.	
28-Jul-2009	25	Modified: Table 13 on page 25.	
18-Feb-2013	26	 Modified Output voltage in Voltage reference parameter <i>Table 7 on page 11</i> and <i>Table 8 on page 12</i>. Minor text changes throughout the document. 	
08-Oct-2013	27	RPN LD1085xx changed to LD1085. Updated the Features and the Description in cover page. Cancelled Table1: Device summary, Table 9: Electrical characteristics of LD1085PY (Automotive Grade). Modified Figure 2: Pin connections (top view), Table 2: Thermal data, Table 13: Order codes, Section 7: Package mechanical data. Added Section 8: Packaging mechanical data. Minor text changes.	

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