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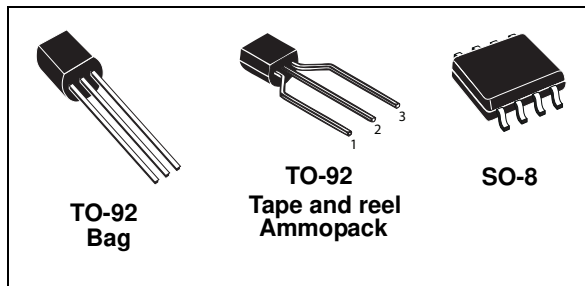
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Very low-dropout voltage regulator with inhibit function

Datasheet - production data



Description

The LEXX is a very low-dropout voltage regulator available in SO-8, TO-92 packages and over a wide range of output voltages.

The very low-dropout voltage (0.2 V) and low quiescent current make it particularly suitable for low-noise, low-power applications and in battery-powered systems.

This device is pin-to-pin compatible with the L78L series. Furthermore, in the 8-pin configuration (SO-8), it uses a shutdown logic control (pin 5, TTL compatible). This means that when the device is used as a local regulator, a part of the board can be put in standby, decreasing the total power consumption. In the three-terminal configuration (TO-92), the device is always in on-state. It requires a 2.2 μ F capacitor for stability, reducing the component size and cost.

Features

- Very low-dropout voltage (0.2 V typ.)
- Very low quiescent current (typ. 50 μ A in OFF mode, 0.5 mA in ON mode, no load)
- Output current up to 100 mA
- Output voltages: 3 V, 3.3 V, 4.5 V, 5 V, 8 V
- Internal current and thermal limit
- Small 2.2 μ F capacitor for stability
- Available in $\pm 1\%$ (A) or $\pm 2\%$ (C) selection at 25 $^{\circ}$ C
- Supply voltage rejection: 80 dB (typ.)
- Temperature range: - 40 to 125 $^{\circ}$ C

Table 1. Device summary

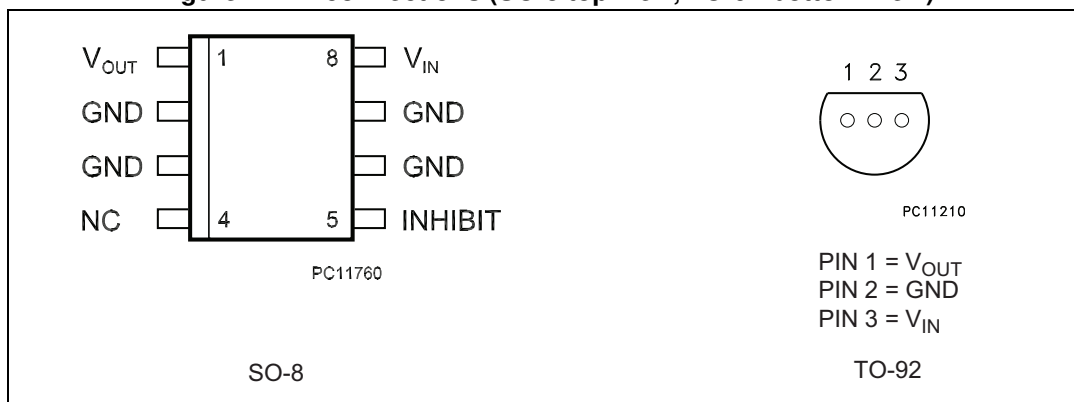
Order codes				Output voltages
SO-8	TO-92 (bag)	TO-92 (ammopack)	TO-92 (tape and reel)	
			LE30ABZ-TR	3 V
LE30CD-TR				3 V
LE33CD-TR	LE33CZ	LE33CZ-AP	LE33CZ-TR	3.3 V
LE45CD-TR				4.5 V
LE50ABD-TR		LE33ABZ-AP		5 V
LE50CD-TR				5 V
LE80CD-TR				8 V

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2 Pin configuration

Figure 2. Pin connections (SO-8 top view, TO-92 bottom view)



3 Maximum ratings

Table 2. Absolute maximum ratings

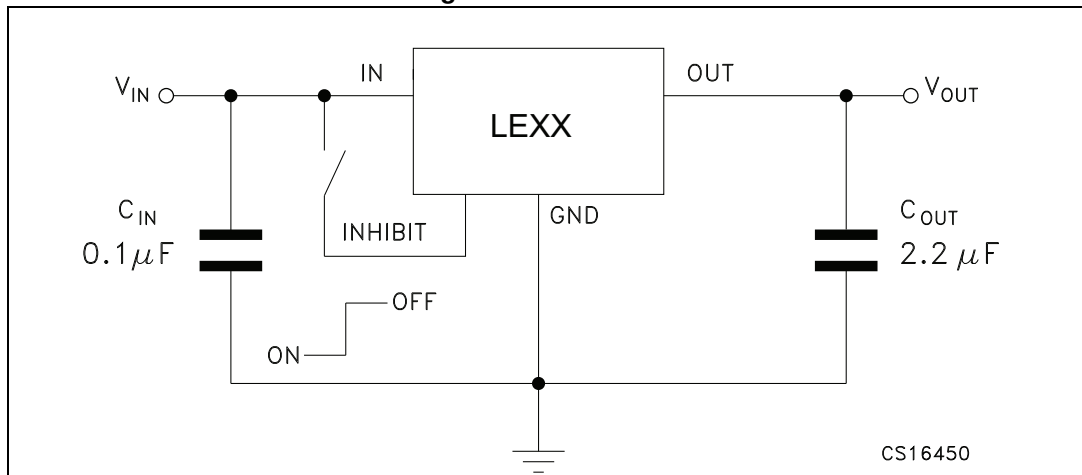
Symbol	Parameter	Value	Unit
V_I	DC input voltage	20	V
I_O	Output current	Internally limited ⁽¹⁾	
P_{TOT}	Power dissipation	Internally limited	
T_{STG}	Storage temperature range	-65 to 150	°C
T_{OP}	Operating junction temperature range	-40 to 125	°C

1. Our SO-8 package, used for voltage regulators, is modified internally to have pins 2, 3, 6 and 7 electrically fused to the die attach pad. This frame decreases the total thermal resistance of the package and increases its ability to dissipate power when an appropriate area of copper on the printed circuit board is available for heatsinking. The external dimensions are the same as SO-8 standard.

Table 3. Thermal data

Symbol	Parameter	SO-8	TO-92	Unit
R_{thJC}	Thermal resistance junction-case	20		°C/W
R_{thJA}	Thermal resistance junction-ambient	55	200	°C/W

Figure 3. Test circuit



Note: If the INHIBIT pin is left floating, the regulator is in ON mode. However, when the inhibit function is not used, it should be grounded to avoid any noise.

4 Electrical characteristics

Refer to test circuits, $T_J = 25\text{ °C}$, $C_I = 0.1\text{ }\mu\text{F}$, $C_O = 2.2\text{ }\mu\text{F}$ unless otherwise specified.

Table 4. LE30AB electrical characteristics

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$I_O = 10\text{ mA}$, $V_I = 5\text{ V}$	2.970	3	3.030	V
		$I_O = 10\text{ mA}$, $V_I = 5\text{ V}$, $T_J = -25\text{ to }85\text{ °C}$	2.940		3.060	
V_I	Operating input voltage	$I_O = 100\text{ mA}$			18	V
I_O	Output current limit		150			mA
ΔV_O	Line regulation	$V_I = 3.7\text{ to }18\text{ V}$, $I_O = 0.5\text{ mA}$		3	15	mV
ΔV_O	Load regulation	$V_I = 4\text{ V}$, $I_O = 0.5\text{ to }100\text{ mA}$		3	15	mV
I_d	Quiescent current	$V_I = 4\text{ to }18\text{ V}$, $I_O = 0\text{ mA}$	ON mode	0.5	1	mA
		$V_I = 4\text{ to }18\text{ V}$, $I_O = 100\text{ mA}$		1.5	3	
		$V_I = 6\text{ V}$	OFF mode	50	100	μA
SVR	Supply voltage rejection	$I_O = 5\text{ mA}$, $V_I = 5 \pm 1\text{ V}$	$f = 120\text{ Hz}$	81		dB
			$f = 1\text{ kHz}$	76		
			$f = 10\text{ kHz}$	60		
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$		50		μV
V_d	Dropout voltage	$I_O = 100\text{ mA}$		0.2	0.4	V
		$I_O = 100\text{ mA}$, $T_J = -40\text{ to }125\text{ °C}$			0.5	
V_{IL}	Control input logic low	$T_J = -40\text{ to }125\text{ °C}$			0.8	V
V_{IH}	Control input logic high	$T_J = -40\text{ to }125\text{ °C}$	2			V
I_I	Control input current	$V_I = 6\text{ V}$, $V_C = 6\text{ V}$		10		μA
C_O	Output bypass capacitance	$\text{ESR} = 0.1\text{ to }10\text{ }\Omega$, $I_O = 0\text{ to }100\text{ mA}$	2	10		μF

Refer to test circuits, $T_J = 25\text{ °C}$, $C_I = 0.1\text{ }\mu\text{F}$, $C_O = 2.2\text{ }\mu\text{F}$ unless otherwise specified.

Table 5. LE30C electrical characteristics

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$I_O = 10\text{ mA}$, $V_I = 5\text{ V}$	2.940	3	3.060	V
		$I_O = 10\text{ mA}$, $V_I = 5\text{ V}$, $T_J = -25\text{ to }85\text{ °C}$	2.880		3.120	
V_I	Operating input voltage	$I_O = 100\text{ mA}$			18	V
I_O	Output current limit		150			mA
ΔV_O	Line regulation	$V_I = 3.7\text{ to }18\text{ V}$, $I_O = 0.5\text{ mA}$		3	20	mV
ΔV_O	Load regulation	$V_I = 4\text{ V}$, $I_O = 0.5\text{ to }100\text{ mA}$		3	25	mV
I_d	Quiescent current	$V_I = 4\text{ to }18\text{ V}$, $I_O = 0\text{ mA}$	ON mode	0.5	1	mA
		$V_I = 4\text{ to }18\text{ V}$, $I_O = 100\text{ mA}$		1.5	3	
		$V_I = 6\text{ V}$	OFF mode	50	100	μA
SVR	Supply voltage rejection	$I_O = 5\text{ mA}$, $V_I = 5 \pm 1\text{ V}$	$f = 120\text{ Hz}$	81		dB
			$f = 1\text{ kHz}$	76		
			$f = 10\text{ kHz}$	60		
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$		50		μV
V_d	Dropout voltage	$I_O = 100\text{ mA}$		0.2	0.4	V
		$I_O = 100\text{ mA}$, $T_J = -40\text{ to }125\text{ °C}$			0.5	
V_{IL}	Control input logic low	$T_J = -40\text{ to }125\text{ °C}$			0.8	V
V_{IH}	Control input logic high	$T_J = -40\text{ to }125\text{ °C}$	2			V
I_I	Control input current	$V_I = 6\text{ V}$, $V_C = 6\text{ V}$		10		μA
C_O	Output bypass capacitance	$\text{ESR} = 0.1\text{ to }10\text{ }\Omega$, $I_O = 0\text{ to }100\text{ mA}$	2	10		μF

Refer to test circuits, $T_J = 25\text{ }^\circ\text{C}$, $C_I = 0.1\text{ }\mu\text{F}$, $C_O = 2.2\text{ }\mu\text{F}$ unless otherwise specified.

Table 6. LE33C electrical characteristics

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$I_O = 10\text{ mA}$, $V_I = 5.3\text{ V}$	3.234	3.3	3.366	V
		$I_O = 10\text{ mA}$, $V_I = 5.3\text{ V}$, $T_J = -25\text{ to }85\text{ }^\circ\text{C}$	3.168		3.432	
V_I	Operating input voltage	$I_O = 100\text{ mA}$			18	V
I_O	Output current limit		150			mA
ΔV_O	Line regulation	$V_I = 4\text{ to }18\text{ V}$, $I_O = 0.5\text{ mA}$		3	20	mV
ΔV_O	Load regulation	$V_I = 4.3\text{ V}$, $I_O = 0.5\text{ to }100\text{ mA}$		3	25	mV
I_d	Quiescent current	$V_I = 4.3\text{ to }18\text{ V}$, $I_O = 0\text{ mA}$	ON mode	0.5	1	mA
		$V_I = 4.3\text{ to }18\text{ V}$, $I_O = 100\text{ mA}$		1.5	3	
		$V_I = 6\text{ V}$	OFF mode	50	100	μA
SVR	Supply voltage rejection	$I_O = 5\text{ mA}$, $V_I = 5.3 \pm 1\text{ V}$	$f = 120\text{ Hz}$	80		dB
			$f = 1\text{ kHz}$	75		
			$f = 10\text{ kHz}$	60		
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$		50		μV
V_d	Dropout voltage	$I_O = 100\text{ mA}$		0.2	0.4	V
		$I_O = 100\text{ mA}$, $T_J = -40\text{ to }125\text{ }^\circ\text{C}$			0.5	
V_{IL}	Control input logic low	$T_J = -40\text{ to }125\text{ }^\circ\text{C}$			0.8	V
V_{IH}	Control input logic high	$T_J = -40\text{ to }125\text{ }^\circ\text{C}$	2			V
I_I	Control input current	$V_I = 6\text{ V}$, $V_C = 6\text{ V}$		10		μA
C_O	Output bypass capacitance	$\text{ESR} = 0.1\text{ to }10\text{ }\Omega$, $I_O = 0\text{ to }100\text{ mA}$	2	10		μF

Refer to test circuits, $T_J = 25\text{ °C}$, $C_I = 0.1\text{ }\mu\text{F}$, $C_O = 2.2\text{ }\mu\text{F}$ unless otherwise specified.

Table 7. LE45C electrical characteristics

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$I_O = 10\text{ mA}$, $V_I = 6.5\text{ V}$	4.41	4.5	4.59	V
		$I_O = 10\text{ mA}$, $V_I = 6.5\text{ V}$, $T_J = -25\text{ to }85\text{ °C}$	4.32		4.68	
V_I	Operating input voltage	$I_O = 100\text{ mA}$			18	V
I_O	Output current limit		150			mA
ΔV_O	Line regulation	$V_I = 5.2\text{ to }18\text{ V}$, $I_O = 0.5\text{ mA}$		4	30	mV
ΔV_O	Load regulation	$V_I = 5.5\text{ V}$, $I_O = 0.5\text{ to }100\text{ mA}$		3	25	mV
I_d	Quiescent current	$V_I = 5.5\text{ to }18\text{ V}$, $I_O = 0\text{ mA}$	ON mode	0.5	1	mA
		$V_I = 5.5\text{ to }18\text{ V}$, $I_O = 100\text{ mA}$		1.5	3	
		$V_I = 6\text{ V}$	OFF mode	50	100	μA
SVR	Supply voltage rejection	$I_O = 5\text{ mA}$, $V_I = 6.5 \pm 1\text{ V}$	$f = 120\text{ Hz}$		77	dB
			$f = 1\text{ kHz}$		72	
			$f = 10\text{ kHz}$		60	
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$		50		μV
V_d	Dropout voltage	$I_O = 100\text{ mA}$		0.2	0.4	V
		$I_O = 100\text{ mA}$, $T_J = -40\text{ to }125\text{ °C}$			0.5	
V_{IL}	Control input logic low	$T_J = -40\text{ to }125\text{ °C}$			0.8	V
V_{IH}	Control input logic high	$T_J = -40\text{ to }125\text{ °C}$	2			V
I_I	Control input current	$V_I = 6\text{ V}$, $V_C = 6\text{ V}$		10		μA
C_O	Output bypass capacitance	$\text{ESR} = 0.1\text{ to }10\text{ }\Omega$, $I_O = 0\text{ to }100\text{ mA}$	2	10		μF

Refer to test circuits, $T_J = 25\text{ °C}$, $C_I = 0.1\text{ }\mu\text{F}$, $C_O = 2.2\text{ }\mu\text{F}$ unless otherwise specified.

Table 8. LE50AB electrical characteristics

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$I_O = 10\text{ mA}$, $V_I = 7\text{ V}$	4.95	5	5.05	V
		$I_O = 10\text{ mA}$, $V_I = 7\text{ V}$, $T_J = -25\text{ to }85\text{ °C}$	4.9		5.1	
V_I	Operating input voltage	$I_O = 100\text{ mA}$			18	V
I_O	Output current limit		150	350	425	mA
ΔV_O	Line regulation	$V_I = 5.7\text{ to }18\text{ V}$, $I_O = 0.5\text{ mA}$		4	20	mV
ΔV_O	Load regulation	$V_I = 6\text{ V}$, $I_O = 0.5\text{ to }100\text{ mA}$		3	15	mV
I_d	Quiescent current	$V_I = 6\text{ to }18\text{ V}$, $I_O = 0\text{ mA}$	ON mode	0.5	1	mA
		$V_I = 6\text{ to }18\text{ V}$, $I_O = 100\text{ mA}$		1.5	3	
		$V_I = 6\text{ V}$	OFF mode	50	100	μA
SVR	Supply voltage rejection	$I_O = 5\text{ mA}$, $V_I = 7 \pm 1\text{ V}$	$f = 120\text{ Hz}$	76		dB
			$f = 1\text{ kHz}$	71		
			$f = 10\text{ kHz}$	60		
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$		50		μV
V_d	Dropout voltage	$I_O = 100\text{ mA}$		0.2	0.4	V
		$I_O = 100\text{ mA}$, $T_J = -40\text{ to }125\text{ °C}$			0.5	
V_{IL}	Control input logic low	$T_J = -40\text{ to }125\text{ °C}$			0.8	V
V_{IH}	Control input logic high	$T_J = -40\text{ to }125\text{ °C}$	2			V
I_I	Control input current	$V_I = 6\text{ V}$, $V_C = 6\text{ V}$		10		μA
C_O	Output bypass capacitance	$\text{ESR} = 0.1\text{ to }10\text{ }\Omega$, $I_O = 0\text{ to }100\text{ mA}$	2	10		μF

Refer to test circuits, $T_J = 25\text{ °C}$, $C_I = 0.1\text{ }\mu\text{F}$, $C_O = 2.2\text{ }\mu\text{F}$ unless otherwise specified.

Table 9. LE50C electrical characteristics

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$I_O = 10\text{ mA}$, $V_I = 7\text{ V}$	4.9	5	5.1	V
		$I_O = 10\text{ mA}$, $V_I = 7\text{ V}$, $T_J = -25\text{ to }85\text{ °C}$	4.8		5.2	
V_I	Operating input voltage	$I_O = 100\text{ mA}$			18	V
I_O	Output current limit		150	350	425	mA
ΔV_O	Line regulation	$V_I = 5.7\text{ to }18\text{ V}$, $I_O = 0.5\text{ mA}$		4	30	mV
ΔV_O	Load regulation	$V_I = 6\text{ V}$, $I_O = 0.5\text{ to }100\text{ mA}$		3	25	mV
I_d	Quiescent current	$V_I = 6\text{ to }18\text{ V}$, $I_O = 0\text{ mA}$	ON mode	0.5	1	mA
		$V_I = 6\text{ to }18\text{ V}$, $I_O = 100\text{ mA}$		1.5	3	
		$V_I = 6\text{ V}$	OFF mode	50	100	μA
SVR	Supply voltage rejection	$I_O = 5\text{ mA}$, $V_I = 7 \pm 1\text{ V}$	$f = 120\text{ Hz}$	76		dB
			$f = 1\text{ kHz}$	71		
			$f = 10\text{ kHz}$	60		
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$		50		μV
V_d	Dropout voltage	$I_O = 100\text{ mA}$		0.2	0.4	V
		$I_O = 100\text{ mA}$, $T_J = -40\text{ to }125\text{ °C}$			0.5	
V_{IL}	Control input logic low	$T_J = -40\text{ to }125\text{ °C}$			0.8	V
V_{IH}	Control input logic high	$T_J = -40\text{ to }125\text{ °C}$	2			V
I_I	Control input current	$V_I = 6\text{ V}$, $V_C = 6\text{ V}$		10		μA
C_O	Output bypass capacitance	$\text{ESR} = 0.1\text{ to }10\text{ }\Omega$, $I_O = 0\text{ to }100\text{ mA}$	2	10		μF

Refer to test circuits, $T_J = 25\text{ °C}$, $C_I = 0.1\text{ }\mu\text{F}$, $C_O = 2.2\text{ }\mu\text{F}$ unless otherwise specified.

Table 10. LE80C electrical characteristics

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$I_O = 10\text{ mA}$, $V_I = 10\text{ V}$	7.84	8	8.16	V
		$I_O = 10\text{ mA}$, $V_I = 10\text{ V}$, $T_J = -25\text{ to }85\text{ °C}$	7.68		8.32	
V_I	Operating input voltage	$I_O = 100\text{ mA}$			18	V
I_O	Output current limit		150			mA
ΔV_O	Line regulation	$V_I = 8.7\text{ to }18\text{ V}$, $I_O = 0.5\text{ mA}$		5	35	mV
ΔV_O	Load regulation	$V_I = 9\text{ V}$, $I_O = 0.5\text{ to }100\text{ mA}$		3	25	mV
I_d	Quiescent current	$V_I = 9\text{ to }18\text{ V}$, $I_O = 0\text{ mA}$	ON mode	0.7	1.6	mA
		$V_I = 9\text{ to }18\text{ V}$, $I_O = 100\text{ mA}$		1.7	3.6	
		$V_I = 9\text{ V}$	OFF mode	70	140	μA
SVR	Supply voltage rejection	$I_O = 5\text{ mA}$, $V_I = 10 \pm 1\text{ V}$	$f = 120\text{ Hz}$	72		dB
			$f = 1\text{ kHz}$	66		
			$f = 10\text{ kHz}$	57		
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$		50		μV
V_d	Dropout voltage	$I_O = 100\text{ mA}$		0.2	0.4	V
		$I_O = 100\text{ mA}$, $T_J = -40\text{ to }125\text{ °C}$			0.5	
V_{IL}	Control input logic low	$T_J = -40\text{ to }125\text{ °C}$			0.8	V
V_{IH}	Control input logic high	$T_J = -40\text{ to }125\text{ °C}$	2			V
I_I	Control input current	$V_I = 9\text{ V}$, $V_C = 6\text{ V}$		10		μA
C_O	Output bypass capacitance	$\text{ESR} = 0.1\text{ to }10\text{ }\Omega$, $I_O = 0\text{ to }100\text{ mA}$	2	10		μF

5 Typical performance characteristics

Unless otherwise specified, $V_{O(NOM)} = 3.3\text{ V}$

Figure 4. Dropout voltage vs. output current

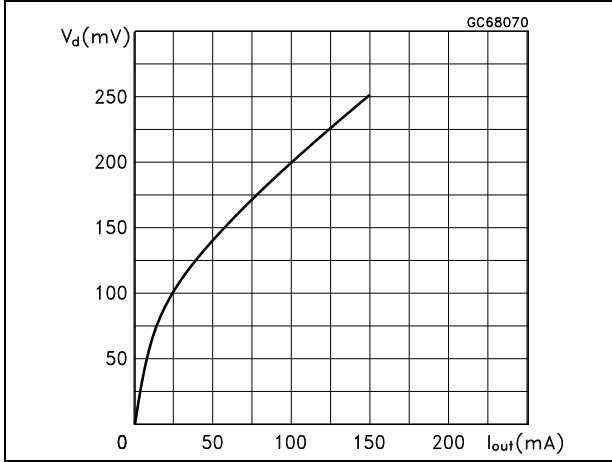


Figure 5. Dropout voltage vs. temperature

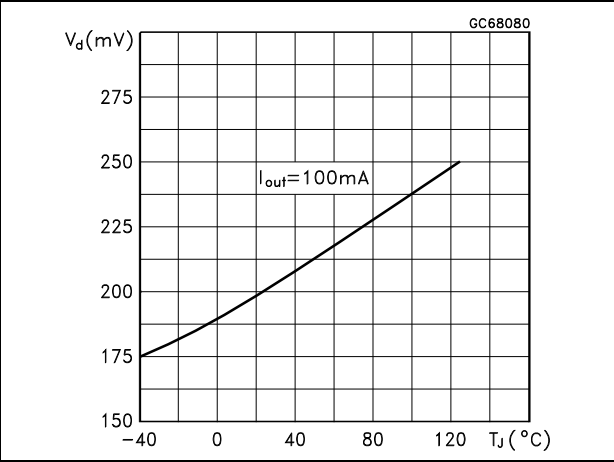


Figure 6. Shutdown current vs. temperature

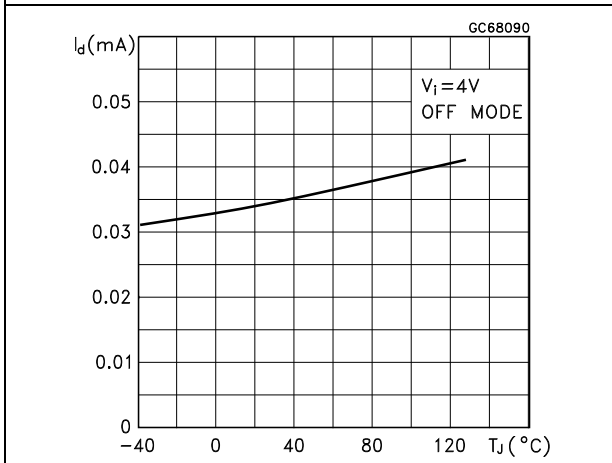


Figure 7. Supply current vs. input voltage

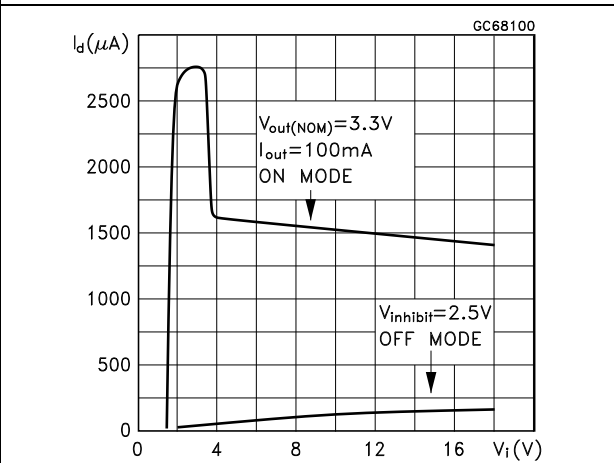


Figure 8. Short-circuit current vs. dropout voltage

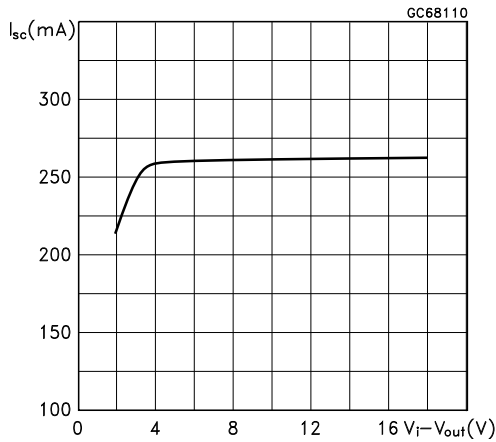


Figure 9. SVR vs. frequency

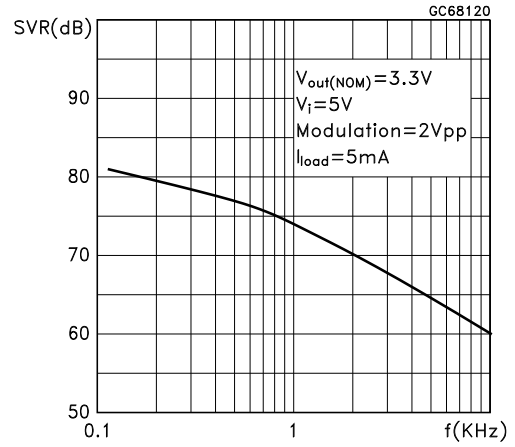


Figure 10. Logic-controlled precision 3.3/5.0 V selectable output

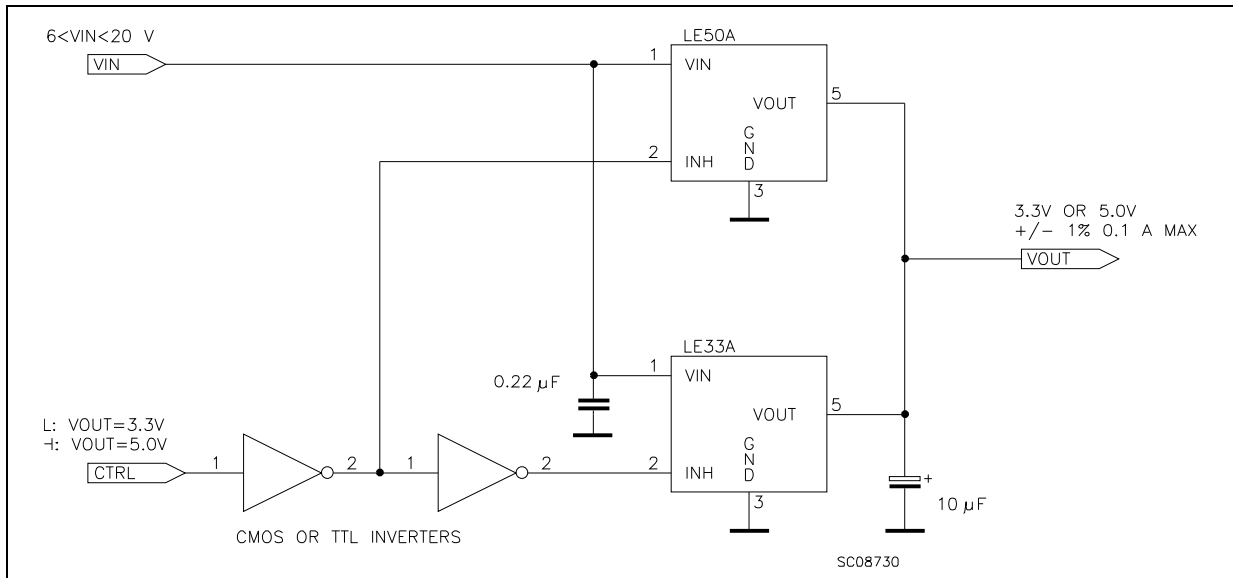


Figure 11. Sequential multi-output supply

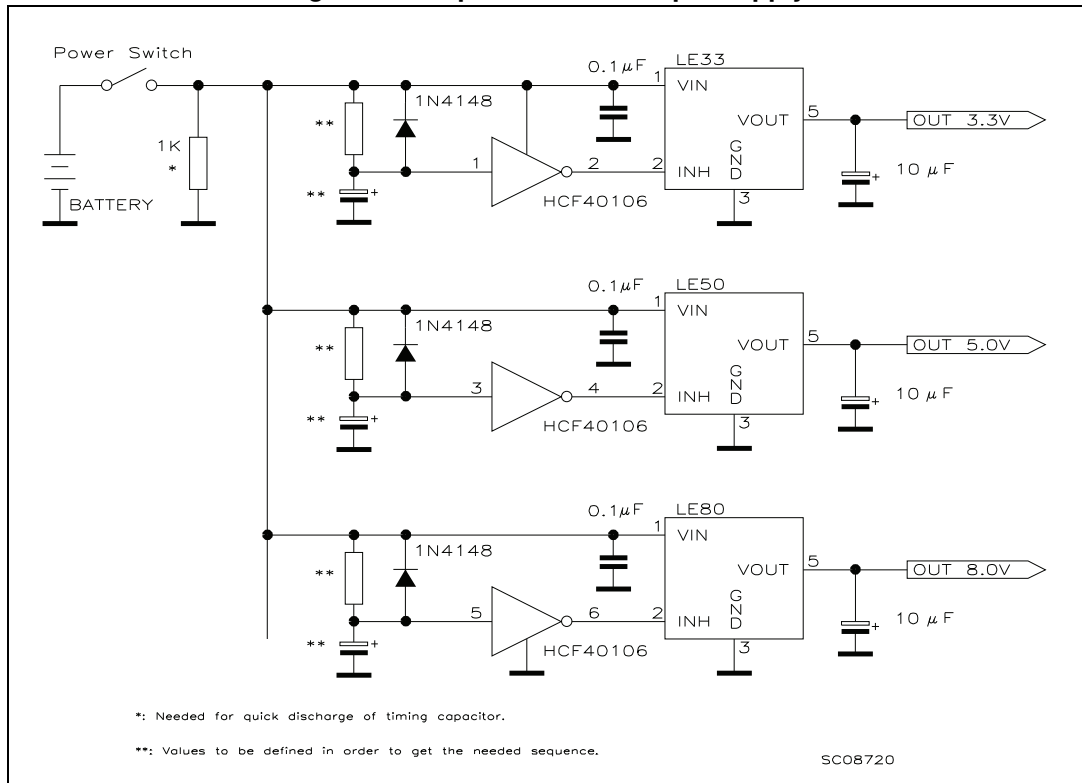
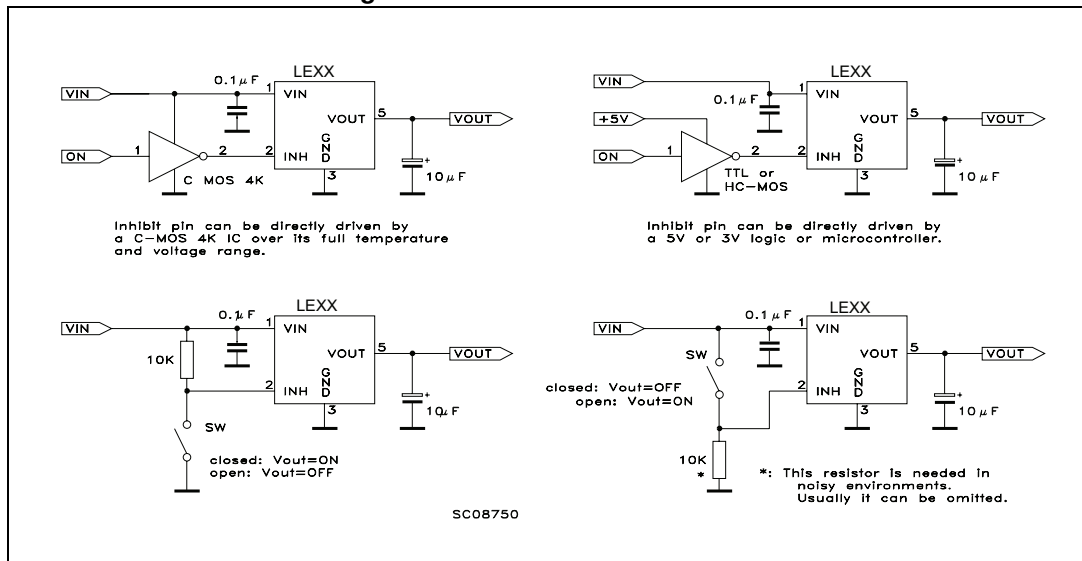


Figure 12. Basic inhibit functions



6 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.

Figure 13. SO-8 drawings

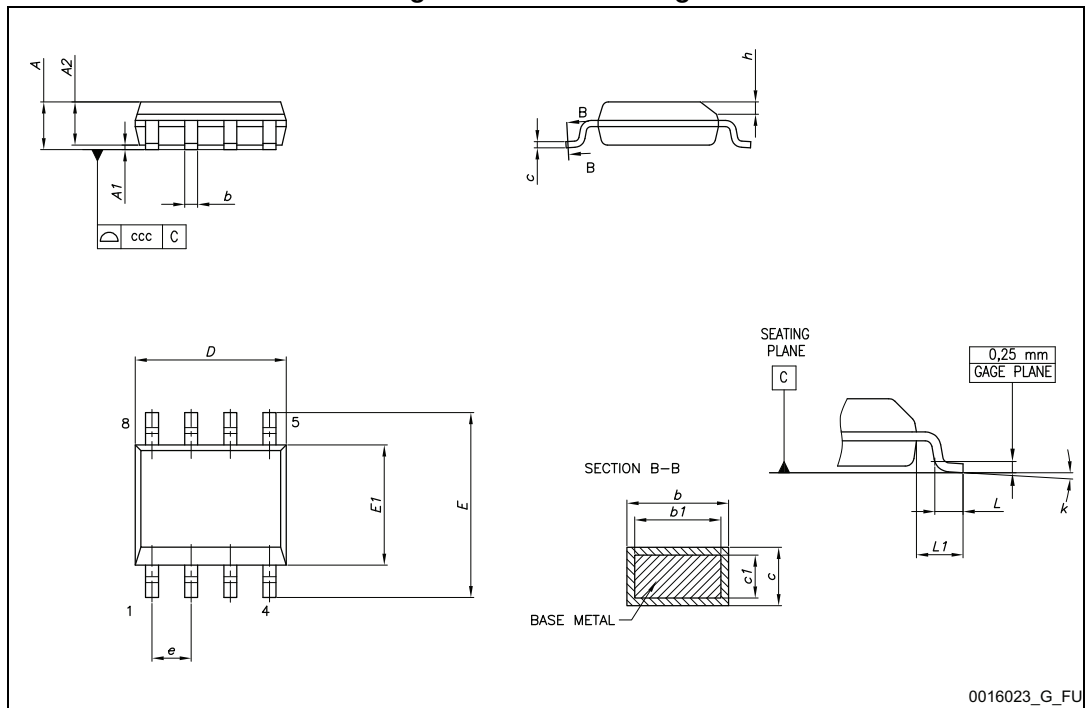


Table 11. SO-8 mechanical data

Dim.	mm		
	Min.	Typ.	Max.
A			1.75
A1	0.10		0.25
A2	1.25		
b	0.31		0.51
b1	0.28		0.48
c	0.10		0.25
c1	0.10		0.23
D	4.80	4.90	5.00
E	5.80	6.00	6.20
E1	3.80	3.90	4.00
e		1.27	
h	0.25		0.50
L	0.40		1.27
L1		1.04	
L2		0.25	
k	0°		8°
ccc			0.10

Figure 14. SO-8 recommended footprint

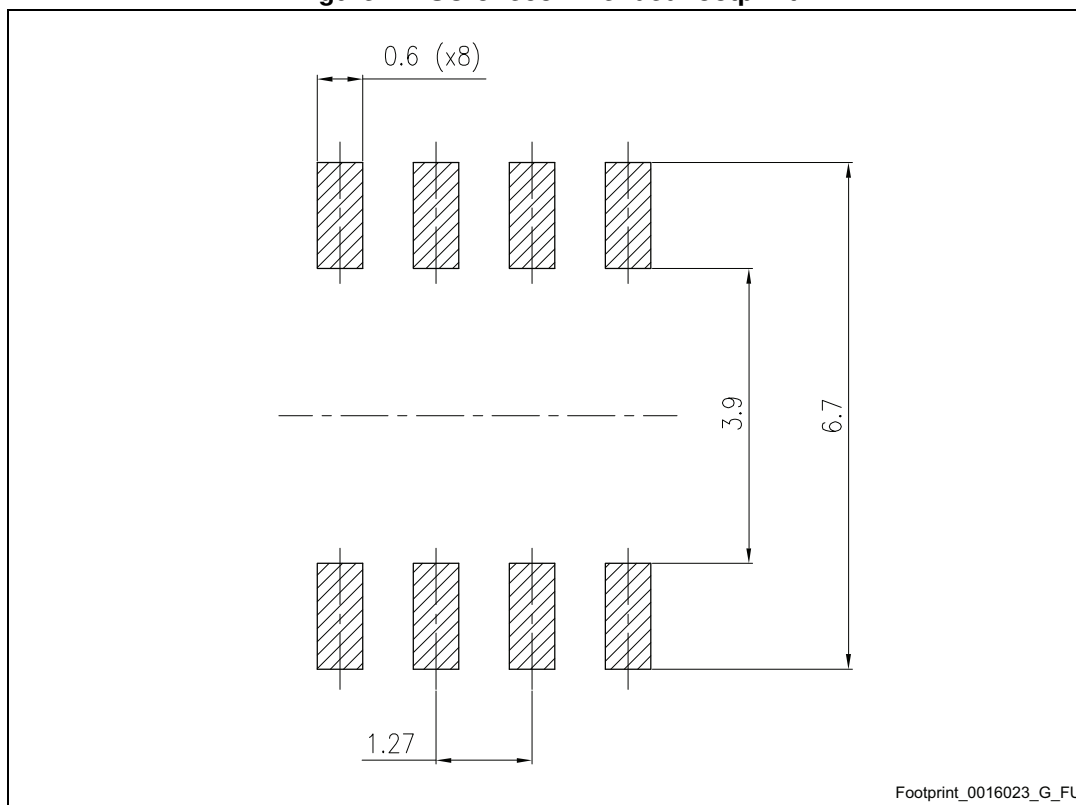


Figure 15. TO-92 bag drawings

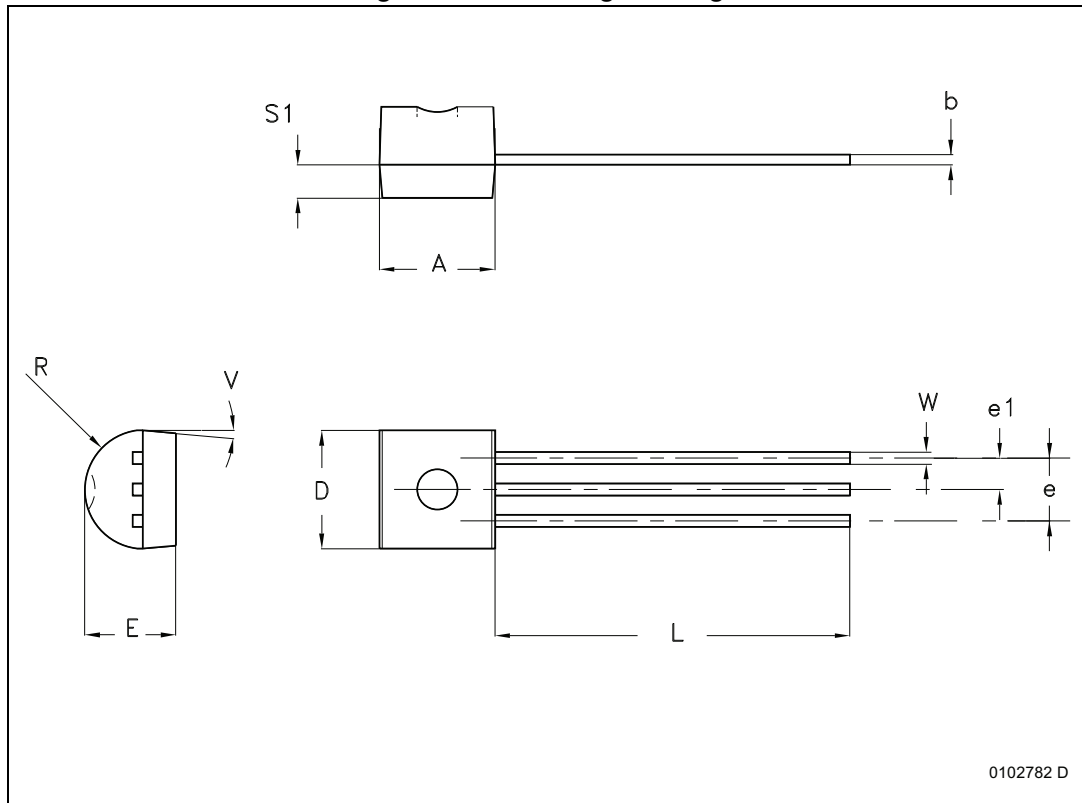


Table 12 TO-92 bag mechanical data

Dim.	mm		
	Min.	Typ.	Max.
A	4.32		4.95
b	0.36		0.51
D	4.45		4.95
E	3.30		3.94
e	2.41		2.67
e1	1.14		1.40
L	12.70		15.49
R	2.16		2.41
S1	0.92		1.52
W	0.41		0.56
V		5°	

7 Packaging information

Figure 16. SO-8 tape and reel drawings

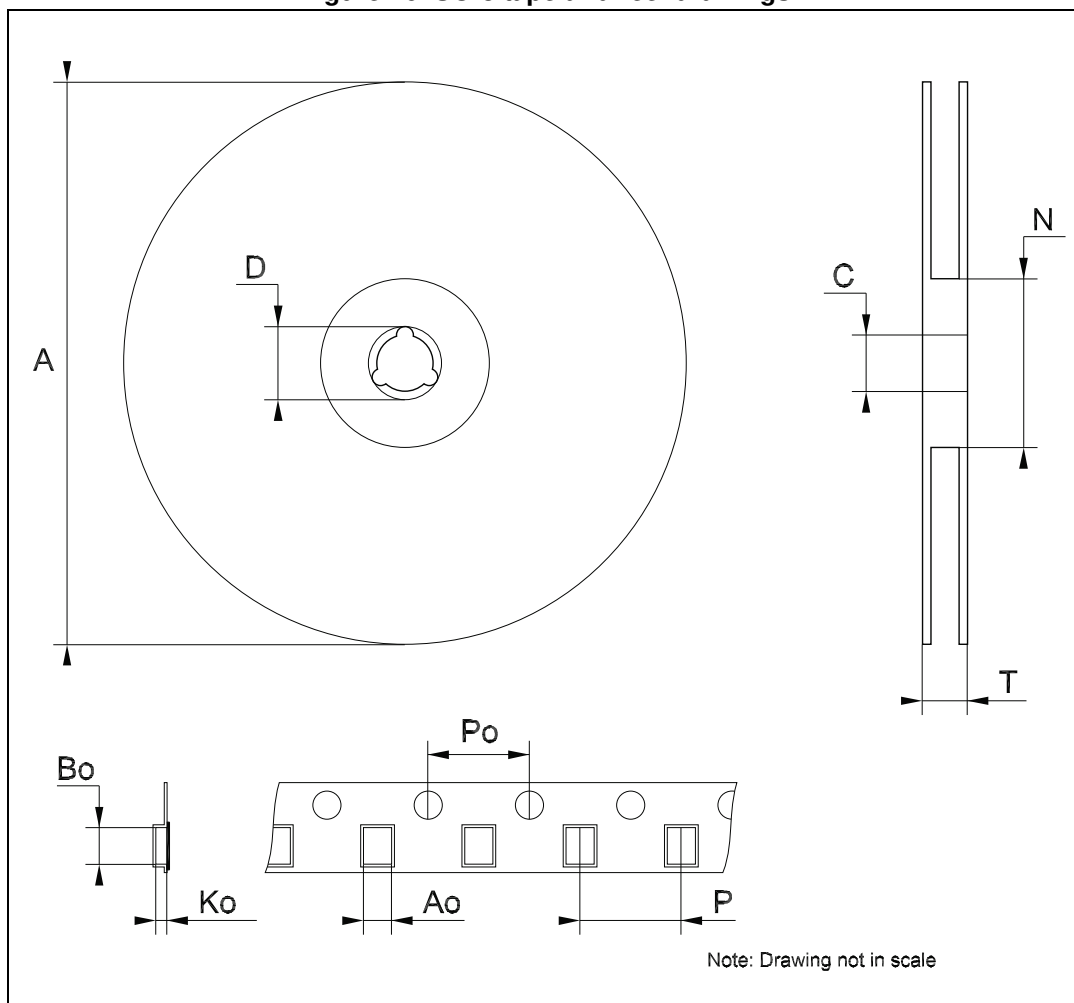


Table 13 SO-8 tape and reel mechanical data

Dim.	mm		
	Min.	Typ.	Max.
A			330
C	12.8		13.2
D	20.2		
N	60		
T			22.4
Ao	8.1		8.5
Bo	5.5		5.9
Ko	2.1		2.3
Po	3.9		4.1
P	7.9		8.1

Figure 17. TO-92 tape and reel drawings

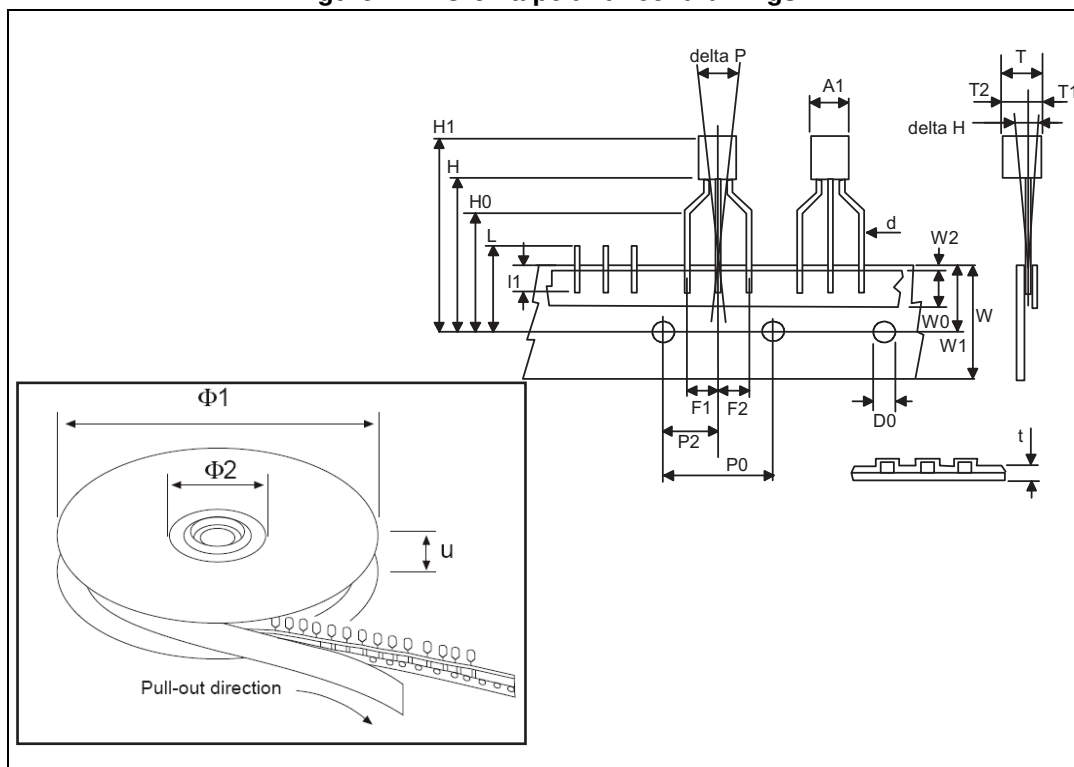


Table 14. TO-92 tape and reel mechanical data

Dim.	mm		
	Min.	Typ.	Max.
A1			4.80
T			3.80
T1			1.60
T2			2.30
d	0.45	0.47	0.48
P0	12.50	12.70	12.90
P2	5.65	6.35	7.05
F1, F2	2.40	2.50	2.94
F3	4.98	5.08	5.48
delta H	-2.00		2.00
W	17.50	18.00	19.00
W0	5.5	6.00	6.5
W1	8.50	9.00	9.25
W2			0.50
H		18.50	21
H3	0.5	1	2
H0	15.50	16.00	18.8
H1		25.0	27.0
D0	3.80	4.00	4.20
t			0.90
L			11.00
l1	3.00		
delta P	-1.00		1.00
Ø1	352	355	358
Ø2	28	30	32
u	44	47	50

Figure 18. TO-92 ammpack

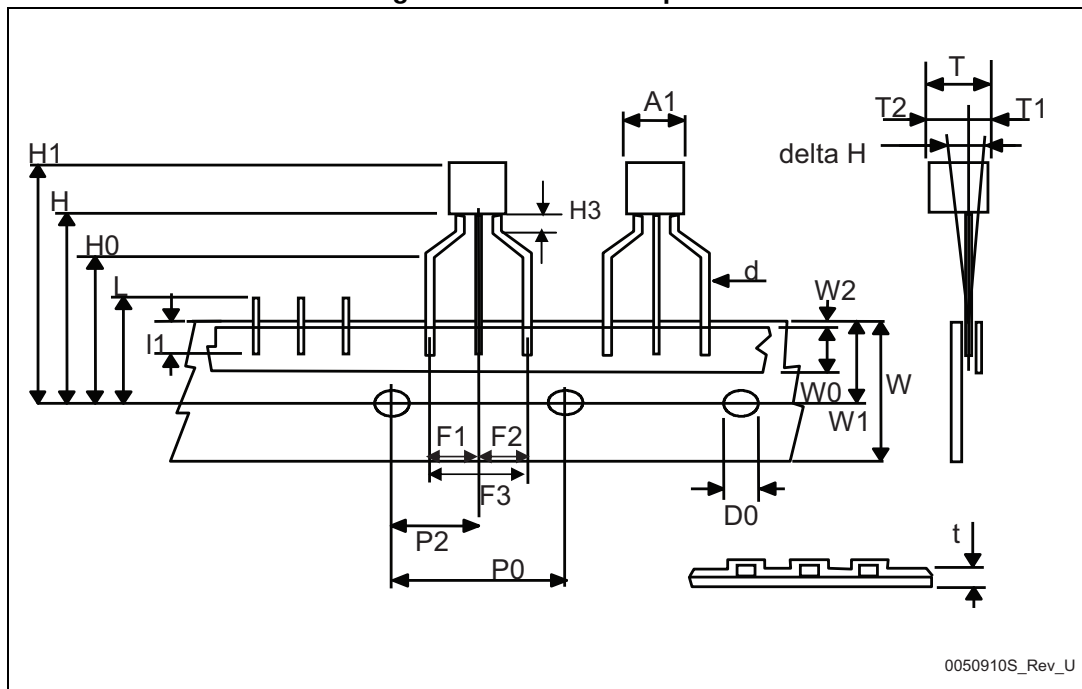


Table 15. TO-92 ammpack mechanical data

Dim.	mm		
	Min.	Typ.	Max.
A1			4.80
T			3.80
T1			1.60
T2			2.30
d	0.45	0.47	0.48
P0	12.50	12.70	12.90
P2	5.65	6.35	7.05
F1, F2	2.40	2.50	2.94
F3	4.98	5.08	5.48
delta H	-2.00		2.00
W	17.50	18.00	19.00
W0	5.5	6.00	6.5
W1	8.50	9.00	9.25
W2			0.50
H		18.50	21
H3	0.5	1	2
H0	15.50	16.00	18.8
H1		25.0	27.0
D0	3.80	4.00	4.20
t			0.90
L			11.00
l1	3.00		
delta P	-1.00		1.00