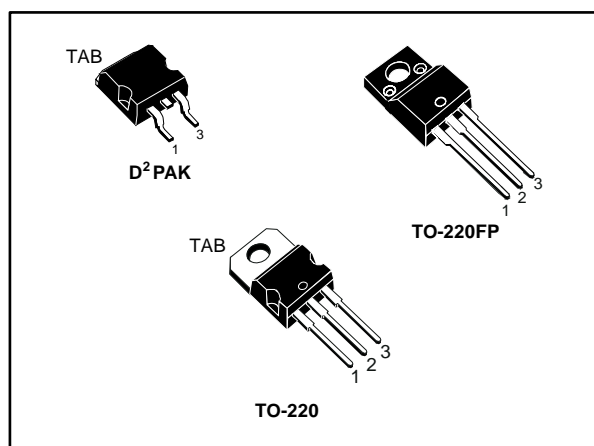


## Negative voltage regulators

Datasheet - production data



### Description

The L79 series of three-terminal negative regulators is available in TO-220, TO-220FP and D<sup>2</sup>PAK packages and several fixed output voltages, making it useful in a wide range of applications.

These regulators can provide local on-card regulation, eliminating the distribution problems associated with single point regulation; furthermore, having the same voltage option as the L78 positive standard series, they are particularly suited for split power supplies. If adequate heat sinking is provided, they can deliver over 1.5 A output current.

Although designed primarily as fixed voltage regulators, these devices can be used with external components to obtain adjustable voltages and currents.

### Features

- Output current up to 1.5 A
- Output voltages: -5, -8, -12, and -5 V
- Thermal overload protection
- Short-circuit protection
- Output transition SOA protection
- Output tolerance 2% (AC version) or 4% (C version) at 25 °C

Table 1: Device summary

Order codes				Output voltages
TO-220 (single gauge)	TO-220 (dual gauge)	D <sup>2</sup> PAK	TO-220FP	
L7905ACV	L7905ACV-DG	L7905ACD2T-TR		-5 V
L7905CV	L7905CV-DG	L7905CD2T-TR	L7905CP	-5 V
L7908CV	L7908CV-DG			-8 V
L7912ACV	L7912ACV-DG			-12 V
L7912CV	L7912CV-DG	L7912CD2T-TR	L7912CP	-12 V
L7915ACV	L7915ACV-DG			-15 V
L7915CV	L7915CV-DG		L7915CP	-15 V

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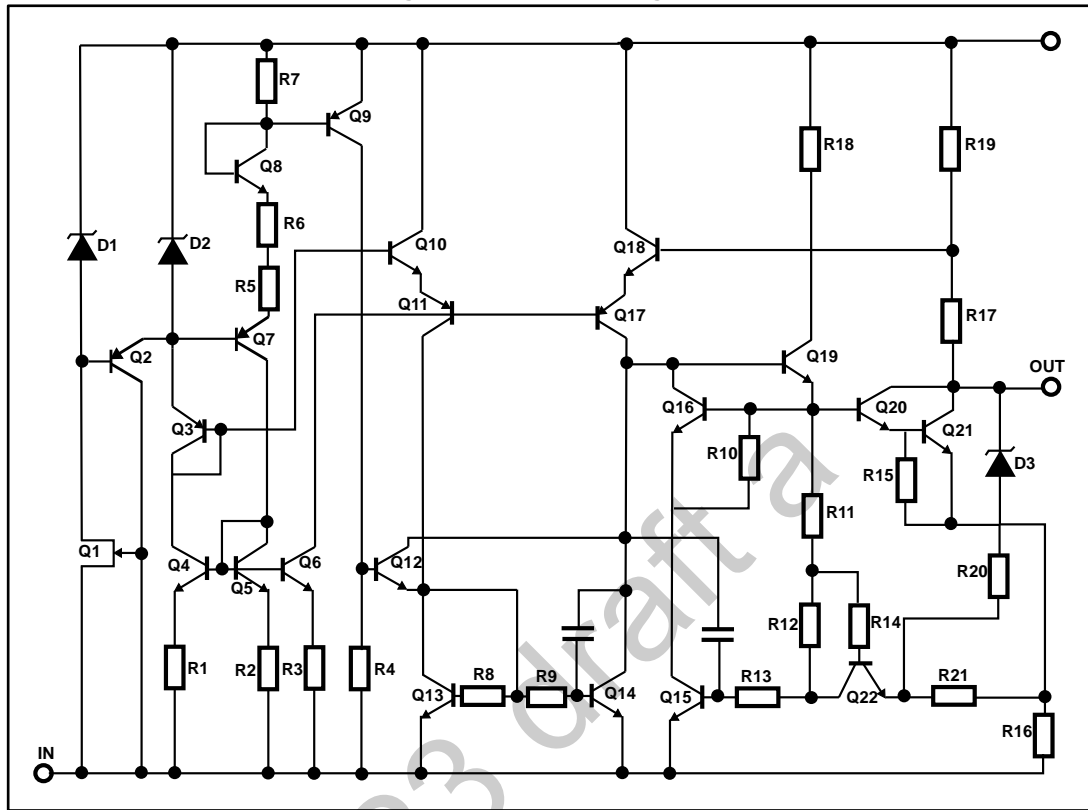
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# 1 Diagram

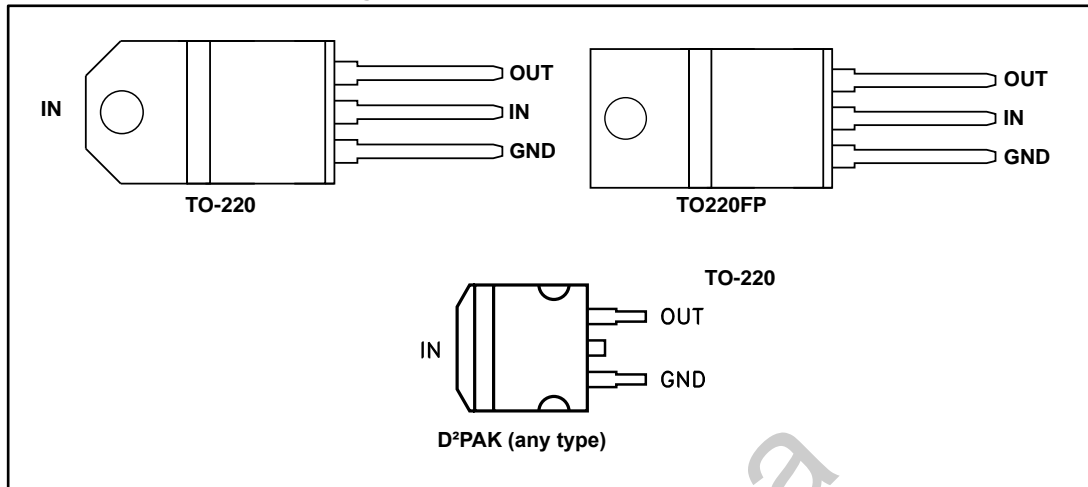
Figure 1: Schematic diagram



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## 2 Pin configuration

Figure 2: Pin connections (top view)



### 3 Maximum ratings

Table 2: Absolute maximum ratings

Symbol	Parameter	Value	Unit	
$V_I$	DC input voltage	-35	V	
$I_O$	Output current	Internally limited		
$P_D$	Power dissipation	Internally limited		
$T_{STG}$	Storage temperature range	-65 to 150	°C	
$T_{OP}$	Operating junction temperature range	for L79xxC	0 to 150	°C
		for L79xxAC	0 to 125	



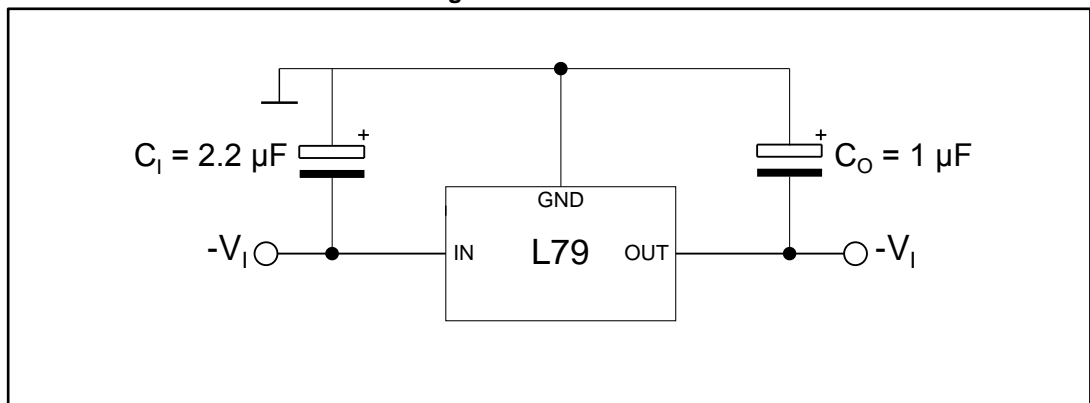
Note: Absolute maximum ratings are those values beyond which damage to the device may occur. Functional operation under these condition is not implied.

Table 3: Thermal data

Symbol	Parameter	D <sup>2</sup> PAK	TO-220	TO-220FP	Unit
$R_{thJC}$	Thermal resistance junction-case	3	5	5	°C/W
$R_{thJA}$	Thermal resistance junction-ambient	62.5	50	60	°C/W

## 4 Test circuit

Figure 3: Test circuit



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## 5 Electrical characteristics

Refer to the test circuits,  $T_J = 0$  to  $125$  °C,  $V_I = -10$  V,  $I_O = 500$  mA,  $C_I = 2.2$   $\mu$ F,  $C_O = 1$   $\mu$ F unless otherwise specified.

**Table 4: Electrical characteristics of L7905AC**

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
$V_O$	Output voltage	$T_J = 25^\circ\text{C}$	-4.9	-5	-5.1	V
$V_O$	Output voltage	$I_O = -5$ mA to $-1$ A, $P_O \leq 15$ W $V_I = -8$ to $-20$ V	-4.8	-5	-5.2	V
$\Delta V_O^{(1)}$	Line regulation	$V_I = -7$ to $-25$ V, $T_J = 25^\circ\text{C}$			100	mV
		$V_I = -8$ to $-12$ V, $T_J = 25^\circ\text{C}$			50	
$\Delta V_O^{(1)}$	Load regulation	$I_O = 5$ mA to $1.5$ A, $T_J = 25^\circ\text{C}$			100	mV
		$I_O = 250$ to $750$ mA, $T_J = 25^\circ\text{C}$			50	
$I_d$	Quiescent current	$T_J = 25^\circ\text{C}$			3	mA
$\Delta I_d$	Quiescent current change	$I_O = 5$ mA to $1$ A			0.5	mA
		$V_I = -8$ to $-25$ V			1.3	
$\Delta V_O/\Delta V_T$	Output voltage drift	$I_O = 5$ mA		-0.4		mV/°C
eN	Output noise voltage	$B = 10$ Hz to $100$ kHz, $T_J = 25^\circ\text{C}$		100		$\mu$ V
SVR	Supply voltage rejection	$\Delta V_I = 10$ V, $f = 120$ Hz	54	60		dB
$V_d$	Dropout voltage	$I_O = 1$ A, $T_J = 25^\circ\text{C}$ , $\Delta V_O = 100$ mV		1.4		V
Isc	Short circuit current			1.8		A
Iscp	Short circuit peak current	$T_J = 25^\circ\text{C}$		1.8		A

**Notes:**

<sup>(1)</sup>Load and line regulation are specified at constant junction temperature. Changes in  $V_O$  due to heating effects must be taken into account separately. Pulse testing with low duty cycle is used.

Refer to the test circuits,  $T_J = 0$  to  $125$  °C,  $V_I = -10$  V,  $I_O = 500$  mA,  $C_I = 2.2$   $\mu$ F,  $C_O = 1$   $\mu$ F unless otherwise specified.

**Table 5: Electrical characteristics of L7905C**

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
$V_O$	Output voltage	$T_J = 25^\circ\text{C}$	-4.8	-5	-5.2	V
$V_O$	Output voltage	$I_O = -5$ mA to $-1$ A, $P_O \leq 15$ W $V_I = -8$ to $-20$ V	-4.75	-5	-5.25	V
$\Delta V_O^{(1)}$	Line regulation	$V_I = -7$ to $-25$ V, $T_J = 25^\circ\text{C}$			100	mV
		$V_I = -8$ to $-12$ V, $T_J = 25^\circ\text{C}$			50	
$\Delta V_O^{(1)}$	Load regulation	$I_O = 5$ mA to $1.5$ A, $T_J = 25^\circ\text{C}$			100	mV
		$I_O = 250$ to $750$ mA, $T_J = 25^\circ\text{C}$			50	
$I_d$	Quiescent current	$T_J = 25^\circ\text{C}$			3	mA

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
$\Delta I_d$	Quiescent current change	$I_o = 5 \text{ mA to } 1 \text{ A}$			0.5	mA
		$V_i = -8 \text{ to } -25 \text{ V}$			1.3	
$\Delta V_o/\Delta T$	Output voltage drift	$I_o = 5 \text{ mA}$		-0.4		mV/°C
eN	Output noise voltage	$B = 10 \text{ Hz to } 100 \text{ kHz}, T_J = 25^\circ\text{C}$		100		$\mu\text{V}$
SVR	Supply voltage rejection	$\Delta V_i = 10 \text{ V}, f = 120 \text{ Hz}$	54	60		dB
$V_d$	Dropout voltage	$I_o = 1 \text{ A}, T_J = 25^\circ\text{C}, \Delta V_o = 100 \text{ mV}$		1.4		V
$I_{sc}$	Short circuit current			1.8		A

**Notes:**

(1) Load and line regulation are specified at constant junction temperature. Changes in  $V_o$  due to heating effects must be taken into account separately. Pulse testing with low duty cycle is used.

Refer to the test circuits,  $T_J = 0 \text{ to } 125^\circ\text{C}$ ,  $V_i = -14 \text{ V}$ ,  $I_o = 500 \text{ mA}$ ,  $C_i = 2.2 \mu\text{F}$ ,  $C_o = 1 \mu\text{F}$  unless otherwise specified.

**Table 6: Electrical characteristics of L7908C**

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
$V_o$	Output voltage	$T_J = 25^\circ\text{C}$	-7.7	-8	-8.3	V
$V_o$	Output voltage	$I_o = -5 \text{ mA to } -1 \text{ A}, P_o \leq 15 \text{ W}, V_i = -11.5 \text{ to } -23 \text{ V}$	-7.6	-8	-8.4	V
$\Delta V_o^{(1)}$	Line regulation	$V_i = -10.5 \text{ to } -25 \text{ V}, T_J = 25^\circ\text{C}$			160	mV
		$V_i = -11 \text{ to } -17 \text{ V}, T_J = 25^\circ\text{C}$			80	
$\Delta V_o^{(1)}$	Load regulation	$I_o = 5 \text{ mA to } 1.5 \text{ A}, T_J = 25^\circ\text{C}$			160	mV
		$I_o = 250 \text{ to } 750 \text{ mA}, T_J = 25^\circ\text{C}$			80	
$I_d$	Quiescent current	$T_J = 25^\circ\text{C}$			3	mA
$\Delta I_d$	Quiescent current change	$I_o = 5 \text{ mA to } 1 \text{ A}$			0.5	mA
		$V_i = -11.5 \text{ to } -25 \text{ V}$			1	
$\Delta V_o/\Delta T$	Output voltage drift	$I_o = 5 \text{ mA}$		-0.6		mV/°C
eN	Output noise voltage	$B = 10 \text{ Hz to } 100 \text{ kHz}, T_J = 25^\circ\text{C}$		175		$\mu\text{V}$
SVR	Supply voltage rejection	$\Delta V_i = 10 \text{ V}, f = 120 \text{ Hz}$	54	60		dB
$V_d$	Dropout voltage	$I_o = 1 \text{ A}, T_J = 25^\circ\text{C}, \Delta V_o = 100 \text{ mV}$		1.1		V
$I_{sc}$	Short circuit current			1.5		A

**Notes:**

(1) Load and line regulation are specified at constant junction temperature. Changes in  $V_o$  due to heating effects must be taken into account separately. Pulse testing with low duty cycle is used.

Refer to the test circuits,  $T_J = 0$  to  $125$  °C,  $V_I = -19$  V,  $I_O = 500$  mA,  $C_I = 2.2$   $\mu$ F,  $C_O = 1$   $\mu$ F unless otherwise specified.

**Table 7: Electrical characteristics of L7912AC**

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
$V_O$	Output voltage	$T_J = 25^\circ\text{C}$	-11.75	-12	-12.25	V
$V_O$	Output voltage	$I_O = -5$ mA to $-1$ A, $P_O \leq 15$ W $V_I = -15.5$ to $-27$ V	-11.5	-12	-12.5	V
$\Delta V_O^{(1)}$	Line regulation	$V_I = -14.5$ to $-30$ V, $T_J = 25^\circ\text{C}$			240	mV
		$V_I = -16$ to $-22$ V, $T_J = 25^\circ\text{C}$			120	
$\Delta V_O^{(1)}$	Load regulation	$I_O = 5$ mA to $1.5$ A, $T_J = 25^\circ\text{C}$			240	mV
		$I_O = 250$ to $750$ mA, $T_J = 25^\circ\text{C}$			120	
$I_d$	Quiescent current	$T_J = 25^\circ\text{C}$			3	mA
$\Delta I_d$	Quiescent current change	$I_O = 5$ mA to $1$ A			0.5	mA
		$V_I = -15$ to $-30$ V			1	
$\Delta V_O/\Delta T$	Output voltage drift	$I_O = 5$ mA		-0.8		mV/°C
eN	Output noise voltage	$B = 10$ Hz to $100$ kHz, $T_J = 25^\circ\text{C}$		200		$\mu$ V
SVR	Supply voltage rejection	$\Delta V_I = 10$ V, $f = 120$ Hz	54	60		dB
$V_d$	Dropout voltage	$I_O = 1$ A, $T_J = 25^\circ\text{C}$ , $\Delta V_O = 100$ mV		1.1		V
$I_{sc}$	Short circuit current			1.0		A
$I_{scp}$	Short circuit peak current	$T_J = 25^\circ\text{C}$ , $V_I = -10$ V		1.8		A

**Notes:**

<sup>(1)</sup>Load and line regulation are specified at constant junction temperature. Changes in  $V_O$  due to heating effects must be taken into account separately. Pulse testing with low duty cycle is used.

Refer to the test circuits,  $T_J = 0$  to  $125$  °C,  $V_I = -19$  V,  $I_O = 500$  mA,  $C_I = 2.2$   $\mu$ F,  $C_O = 1$   $\mu$ F unless otherwise specified.

**Table 8: Electrical characteristics of L7912C**

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
$V_O$	Output voltage	$T_J = 25^\circ\text{C}$	-11.5	-12	-12.5	V
$V_O$	Output voltage	$I_O = -5$ mA to $-1$ A, $P_O \leq 15$ W $V_I = -15.5$ to $-27$ V	-11.4	-12	-12.6	V
$\Delta V_O^{(1)}$	Line regulation	$V_I = -14.5$ to $-30$ V, $T_J = 25^\circ\text{C}$			240	mV
		$V_I = -16$ to $-22$ V, $T_J = 25^\circ\text{C}$			120	
$\Delta V_O^{(1)}$	Load regulation	$I_O = 5$ mA to $1.5$ A, $T_J = 25^\circ\text{C}$			240	mV
		$I_O = 250$ to $750$ mA, $T_J = 25^\circ\text{C}$			120	
$I_d$	Quiescent current	$T_J = 25^\circ\text{C}$			3	mA

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
$\Delta I_d$	Quiescent current change	$I_o = 5 \text{ mA to } 1 \text{ A}$			0.5	mA
		$V_i = -15 \text{ to } -30 \text{ V}$			1	
$\Delta V_o/\Delta T$	Output voltage drift	$I_o = 5 \text{ mA}$		-0.8		mV/°C
eN	Output noise voltage	$B = 10 \text{ Hz to } 100 \text{ kHz}, T_J = 25^\circ\text{C}$		200		$\mu\text{V}$
SVR	Supply voltage rejection	$\Delta V_i = 10 \text{ V}, f = 120\text{Hz}$	54	60		dB
$V_d$	Dropout voltage	$I_o = 1 \text{ A}, T_J = 25^\circ\text{C}, \Delta V_o = 100 \text{ mV}$		1.1		V
$I_{sc}$	Short circuit current			1.0		A

**Notes:**

(1) Load and line regulation are specified at constant junction temperature. Changes in  $V_o$  due to heating effects must be taken into account separately. Pulse testing with low duty cycle is used.

Refer to the test circuits,  $T_J = 0 \text{ to } 125^\circ\text{C}$ ,  $V_i = -23 \text{ V}$ ,  $I_o = 500 \text{ mA}$ ,  $C_i = 2.2 \mu\text{F}$ ,  $C_o = 1 \mu\text{F}$  unless otherwise specified.

**Table 9: Electrical characteristics of L7915AC**

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
$V_o$	Output voltage	$T_J = 25^\circ\text{C}$	-14.7	-15	-15.3	V
$V_o$	Output voltage	$I_o = -5 \text{ mA to } -1 \text{ A}, P_o \leq 15 \text{ W}$ $V_i = -18.5 \text{ to } -30 \text{ V}$	-14.4	-15	-15.6	V
$\Delta V_o^{(1)}$	Line regulation	$V_i = -17.5 \text{ to } -30 \text{ V}, T_J = 25^\circ\text{C}$			300	mV
		$V_i = -20 \text{ to } -26 \text{ V}, T_J = 25^\circ\text{C}$			150	
$\Delta V_o^{(1)}$	Load regulation	$I_o = 5 \text{ mA to } 1.5 \text{ A}, T_J = 25^\circ\text{C}$			300	mV
		$I_o = 250 \text{ to } 750 \text{ mA}, T_J = 25^\circ\text{C}$			150	
$I_d$	Quiescent current	$T_J = 25^\circ\text{C}$			3	mA
$\Delta I_d$	Quiescent current change	$I_o = 5 \text{ mA to } 1 \text{ A}$			0.5	mA
		$V_i = -18.5 \text{ to } -30 \text{ V}$			1	
$\Delta V_o/\Delta T$	Output voltage drift	$I_o = 5 \text{ mA}$		-0.9		mV/°C
eN	Output noise voltage	$B = 10 \text{ Hz to } 100 \text{ kHz}, T_J = 25^\circ\text{C}$		250		$\mu\text{V}$
SVR	Supply voltage rejection	$\Delta V_i = 10 \text{ V}, f = 120 \text{ Hz}$	54	60		dB
$V_d$	Dropout voltage	$I_o = 1 \text{ A}, T_J = 25^\circ\text{C}, \Delta V_o = 100 \text{ mV}$		1.1		V
$I_{sc}$	Short circuit current			0.7		A
$I_{scp}$	Short circuit peak current	$T_J = 25^\circ\text{C}, V_i = -10 \text{ V}$		1.8		A

**Notes:**

(1) Load and line regulation are specified at constant junction temperature. Changes in  $V_o$  due to heating effects must be taken into account separately. Pulse testing with low duty cycle is used.

Refer to the test circuits,  $T_J = 0$  to  $125$  °C,  $V_I = -23$  V,  $I_O = 500$  mA,  $C_I = 2.2$   $\mu$ F,  $C_O = 1$   $\mu$ F unless otherwise specified.

**Table 10: Electrical characteristics of L7915C**

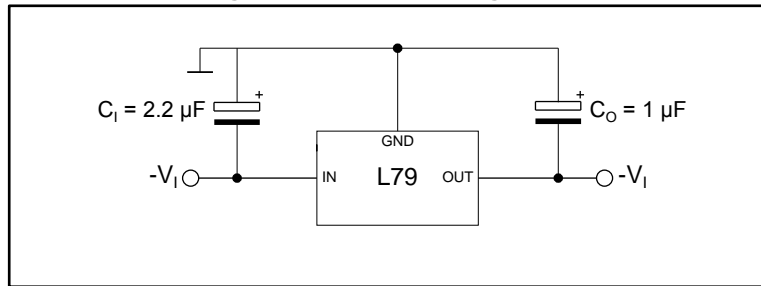
Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
$V_O$	Output voltage	$T_J = 25^\circ\text{C}$	-14.4	-15	-15.6	V
$V_O$	Output voltage	$I_O = -5$ mA to $-1$ A, $P_O \leq 15$ W $V_I = -18.5$ to $-30$ V	-14.3	-15	-15.7	V
$\Delta V_O^{(1)}$	Line regulation	$V_I = -17.5$ to $-30$ V, $T_J = 25^\circ\text{C}$			300	mV
		$V_I = -20$ to $-26$ V, $T_J = 25^\circ\text{C}$			150	
$\Delta V_O^{(1)}$	Load regulation	$I_O = 5$ mA to $1.5$ A, $T_J = 25^\circ\text{C}$			300	mV
		$I_O = 250$ to $750$ mA, $T_J = 25^\circ\text{C}$			150	
$I_d$	Quiescent current	$T_J = 25^\circ\text{C}$			3	mA
$\Delta I_d$	Quiescent current change	$I_O = 5$ mA to $1$ A			0.5	mA
		$V_I = -18.5$ to $-30$ V			1	
$\Delta V_O/\Delta T$	Output voltage drift	$I_O = 5$ mA		-0.9		mV/°C
eN	Output noise voltage	$B = 10$ Hz to $100$ kHz, $T_J = 25^\circ\text{C}$		250		$\mu$ V
SVR	Supply voltage rejection	$\Delta V_I = 10$ V, $f = 120$ Hz	54	60		dB
$V_d$	Dropout voltage	$I_O = 1$ A, $T_J = 25^\circ\text{C}$ , $\Delta V_O = 100$ mV		1.1		V
$I_{sc}$	Short circuit current			0.7		A

**Notes:**

<sup>(1)</sup>Load and line regulation are specified at constant junction temperature. Changes in  $V_O$  due to heating effects must be taken into account separately. Pulse testing with low duty cycle is used.

## 6 Application information

Figure 4: Fixed output regulator



$C_1$  is required for stability. For value given, capacitor must be solid tantalum. If aluminium electrolytic are used, at least ten times value should be selected.  $C_o$  is required if regulator is located an appreciable distance from power supply filter. To improve transient response. If large capacitors are used, a high current diode from input to output (1N4001 or similar) should be introduced to protect the device from momentary input short circuit.

Figure 5: Split power supply ( $\pm 15\text{ V} - 1\text{ A}$ )

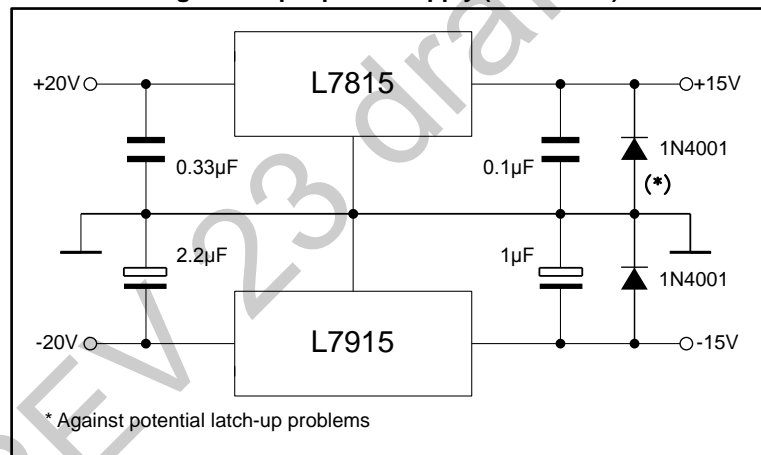


Figure 6: Circuit for increasing output voltage

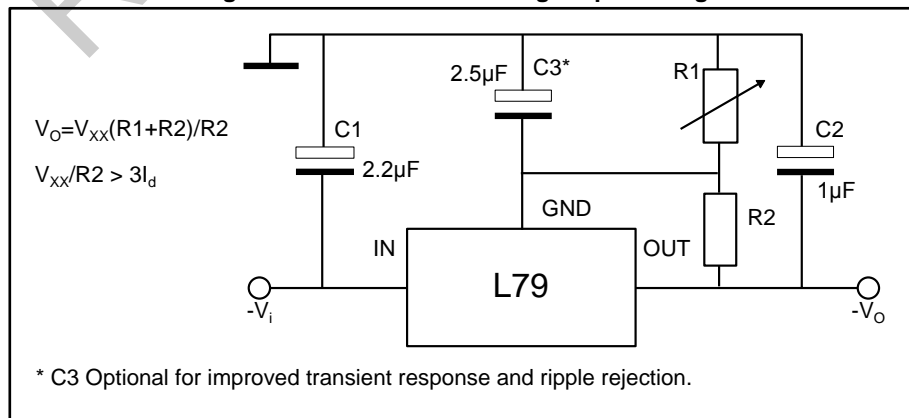
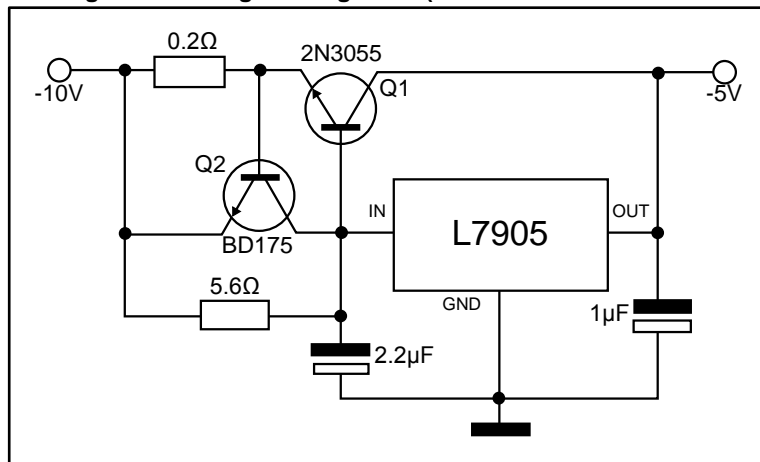


Figure 7: High current negative regulator (-5 V / 4 A with 5 A current limiting)



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## 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.

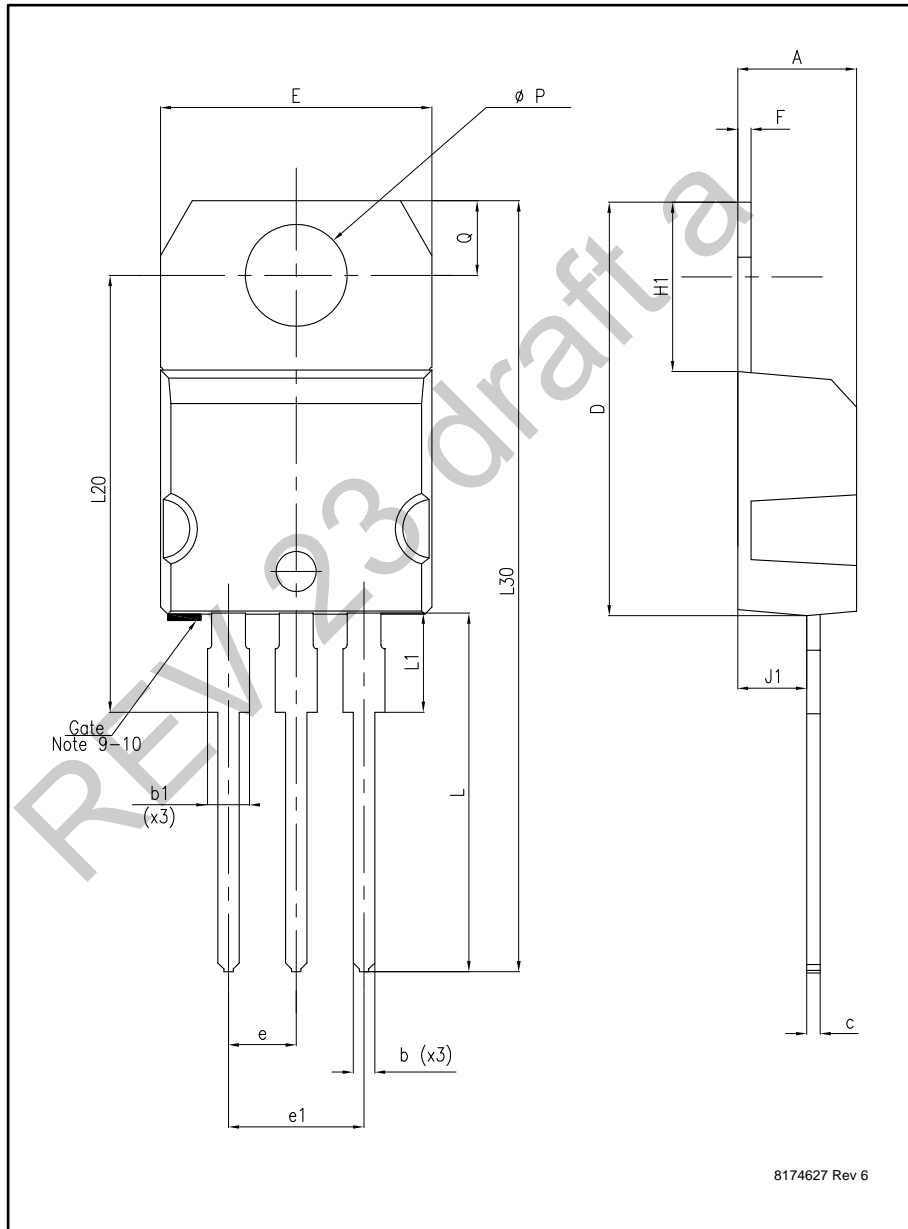
ECOPACK® specifications, grade definitions and product status are available at:

[www.st.com](http://www.st.com).

ECOPACK® is an ST trademark.

### 7.1 TO-220 (single gauge) package information

Figure 8: TO-220 (single gauge) package outline



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Table 11: TO-220 (single gauge) package mechanical data

Dim.	mm		
	Min.	Typ.	Max.
A	4.40		4.60
b	0.61		0.88
b1	1.14		1.70
c	0.48		0.70
D	15.25		15.75
E	10.00		10.40
e	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	13.00		14.00
L1	3.50		3.93
L20		16.40	
L30		28.90	
ΦP	3.75		3.85
Q	2.65		2.95

### 7.2 TO-220 (dual gauge) package information

Figure 9: TO-220 type A package outline

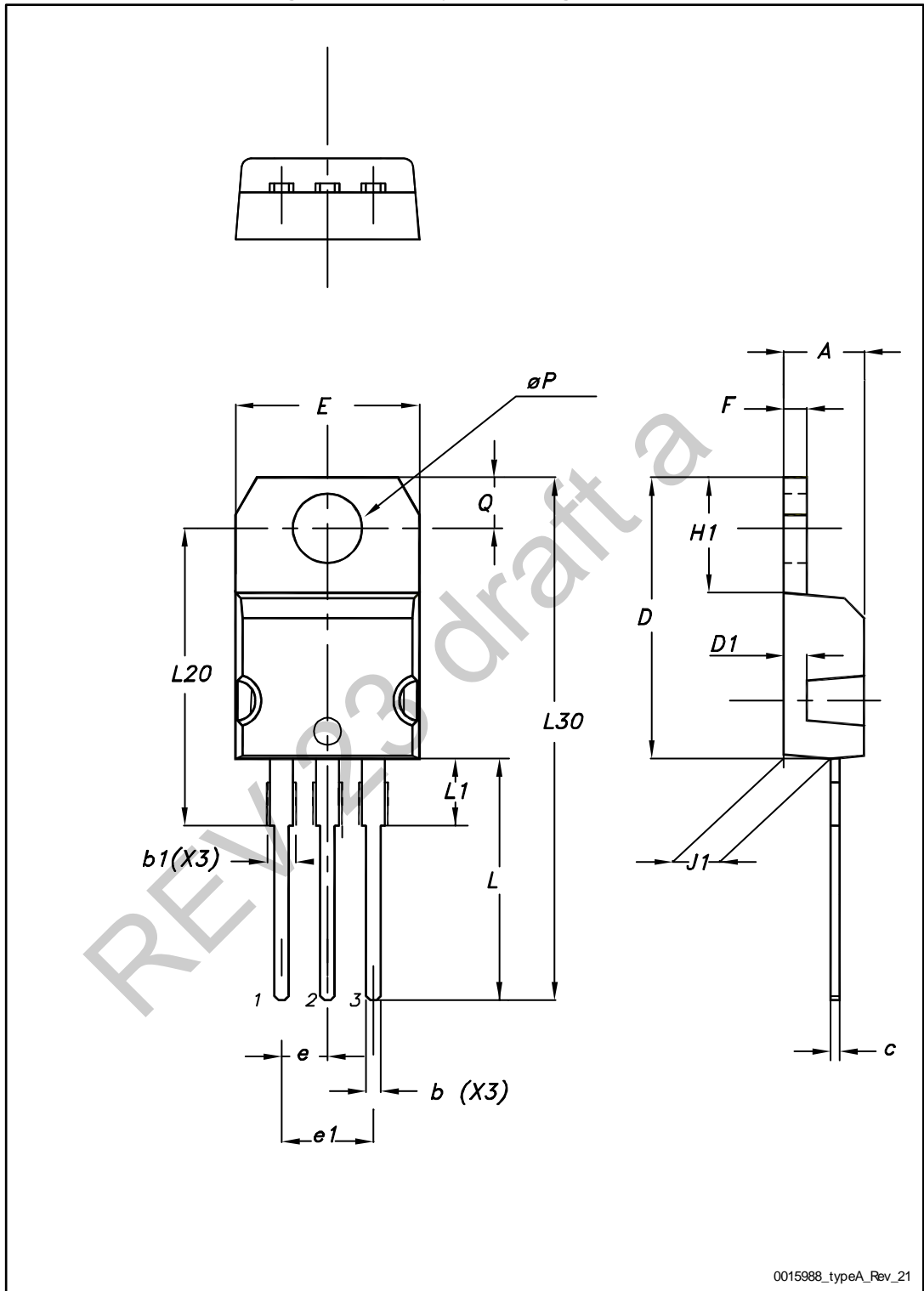
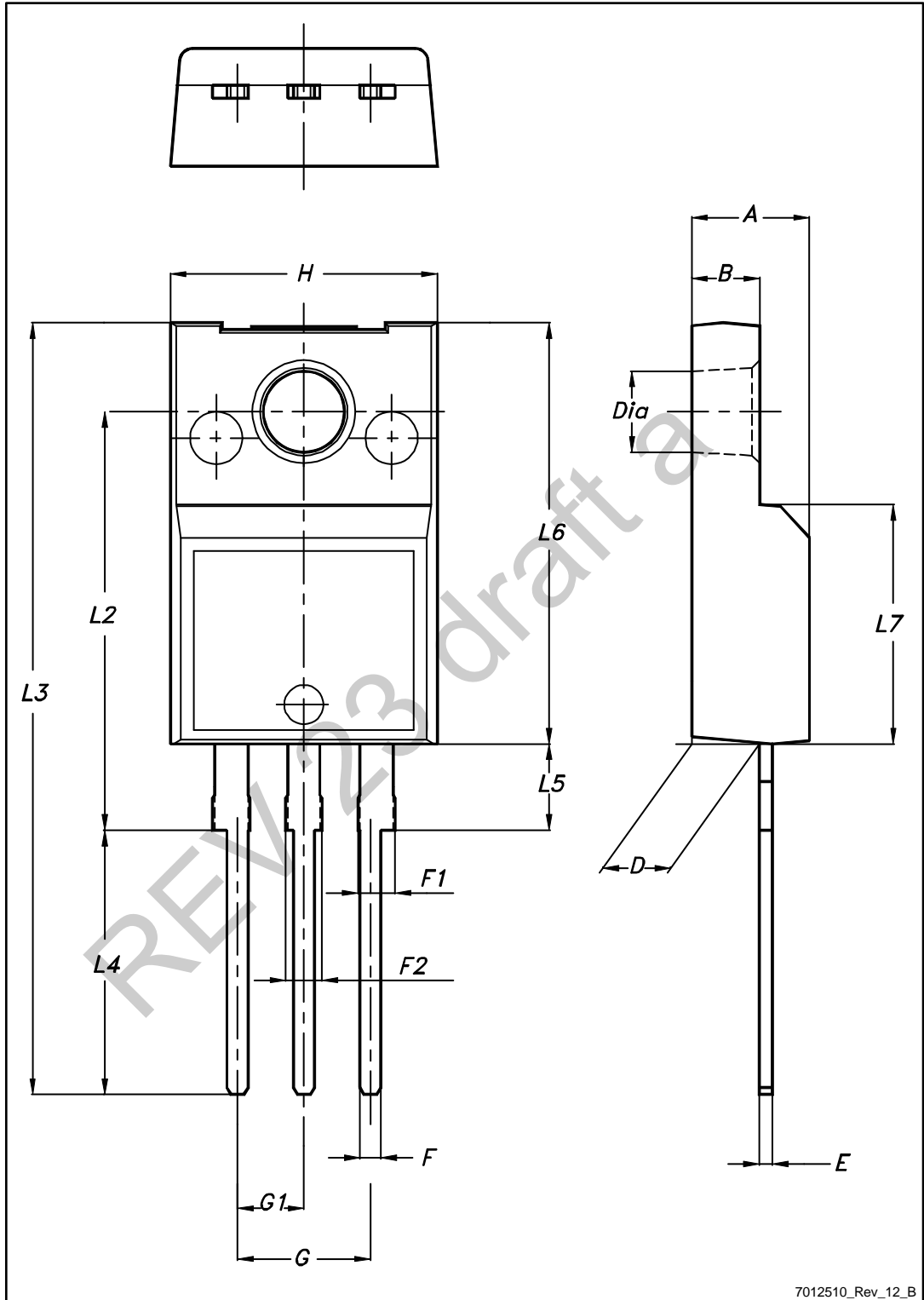


Table 12: TO-220 type A package mechanical data

Dim.	mm		
	Min.	Typ.	Max.
A	4.40		4.60
b	0.61		0.88
b1	1.14		1.55
c	0.48		0.70
D	15.25		15.75
D1		1.27	
E	10.00		10.40
e	2.40		2.70
e1	4.95		5.15
F	1.23		1.32
H1	6.20		6.60
J1	2.40		2.72
L	13.00		14.00
L1	3.50		3.93
L20		16.40	
L30		28.90	
øP	3.75		3.85
Q	2.65		2.95

### 7.3 TO-220FP package information

Figure 10: TO-220FP package outline



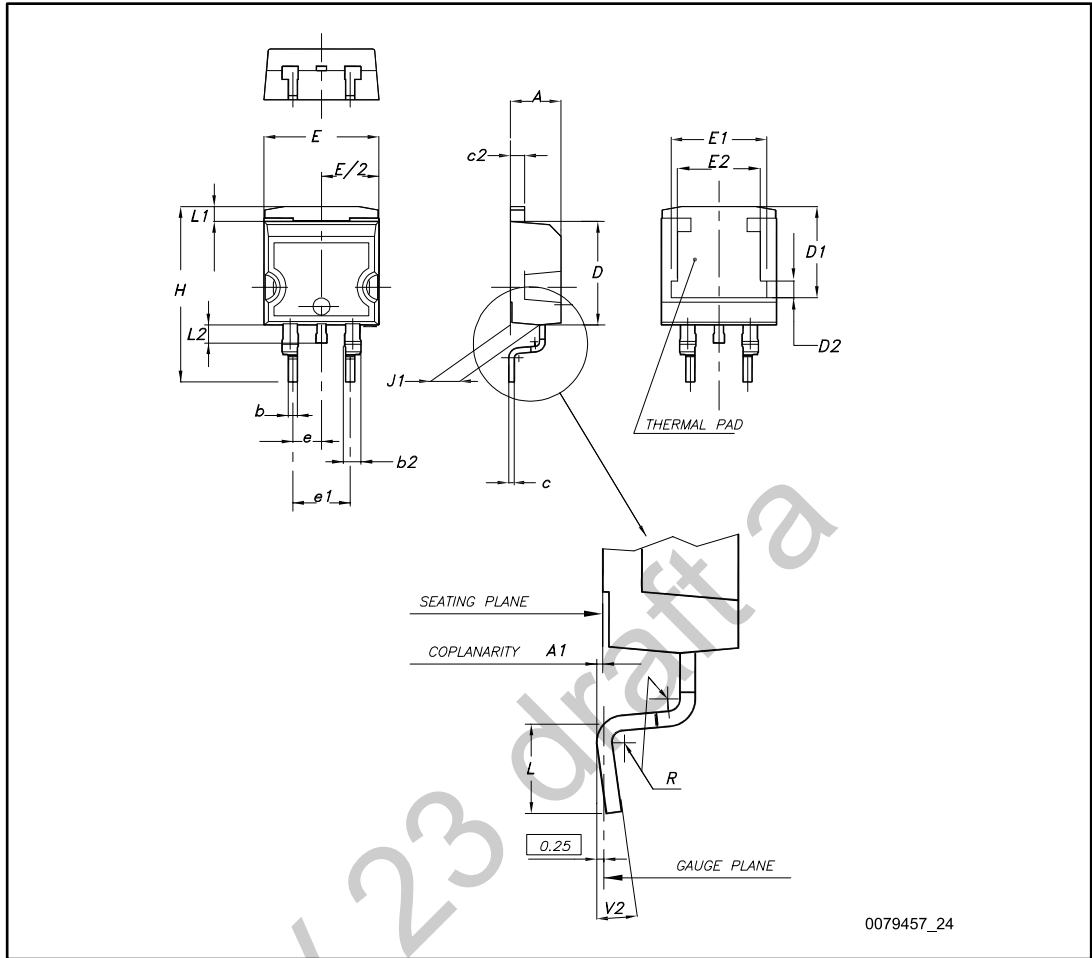
7012510\_Rev\_12\_B

Table 13: TO-220FP package mechanical data

Dim.	mm		
	Min.	Typ.	Max.
A	4.4		4.6
B	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
H	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

### 7.4 D<sup>2</sup>PAK (TO-263) type A package information

Figure 11: D<sup>2</sup>PAK (TO-263) type A package outline



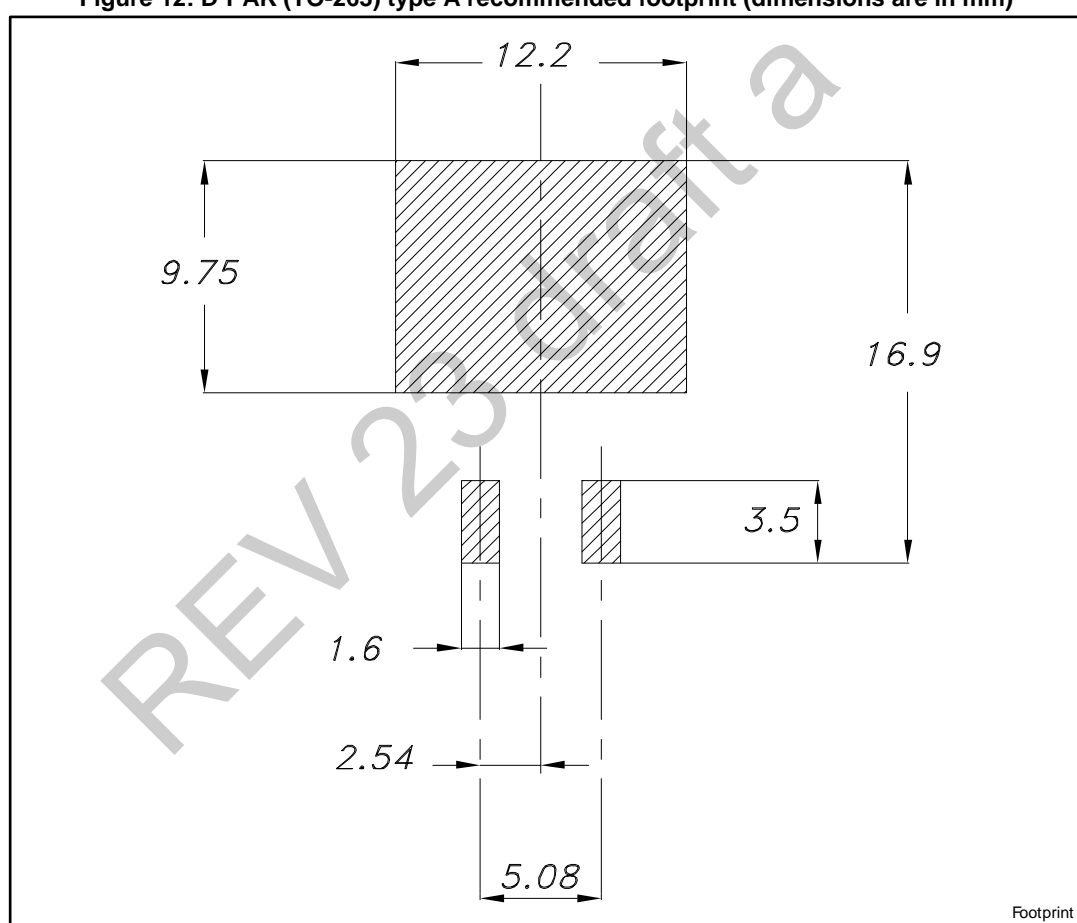
0079457\_24

Table 14: D<sup>2</sup>PAK (TO-263) type A package mechanical data

Dim.	mm		
	Min.	Typ.	Max.
A	4.40		4.60
A1	0.03		0.23
b	0.70		0.93
b2	1.14		1.70
c	0.45		0.60
c2	1.23		1.36
D	8.95		9.35
D1	7.50	7.75	8.00
D2	1.10	1.30	1.50
E	10.00		10.40
E1	8.50	8.70	8.90
E2	6.85	7.05	7.25

Dim.	mm		
	Min.	Typ.	Max.
e		2.54	
e1	4.88		5.28
H	15.00		15.85
J1	2.49		2.69
L	2.29		2.79
L1	1.27		1.40
L2	1.30		1.75
R		0.40	
V2	0°		8°

Figure 12: D<sup>2</sup>PAK (TO-263) type A recommended footprint (dimensions are in mm)



### 7.5 D<sup>2</sup>PAK type A packing information

Figure 13: D<sup>2</sup>PAK type A tape outline

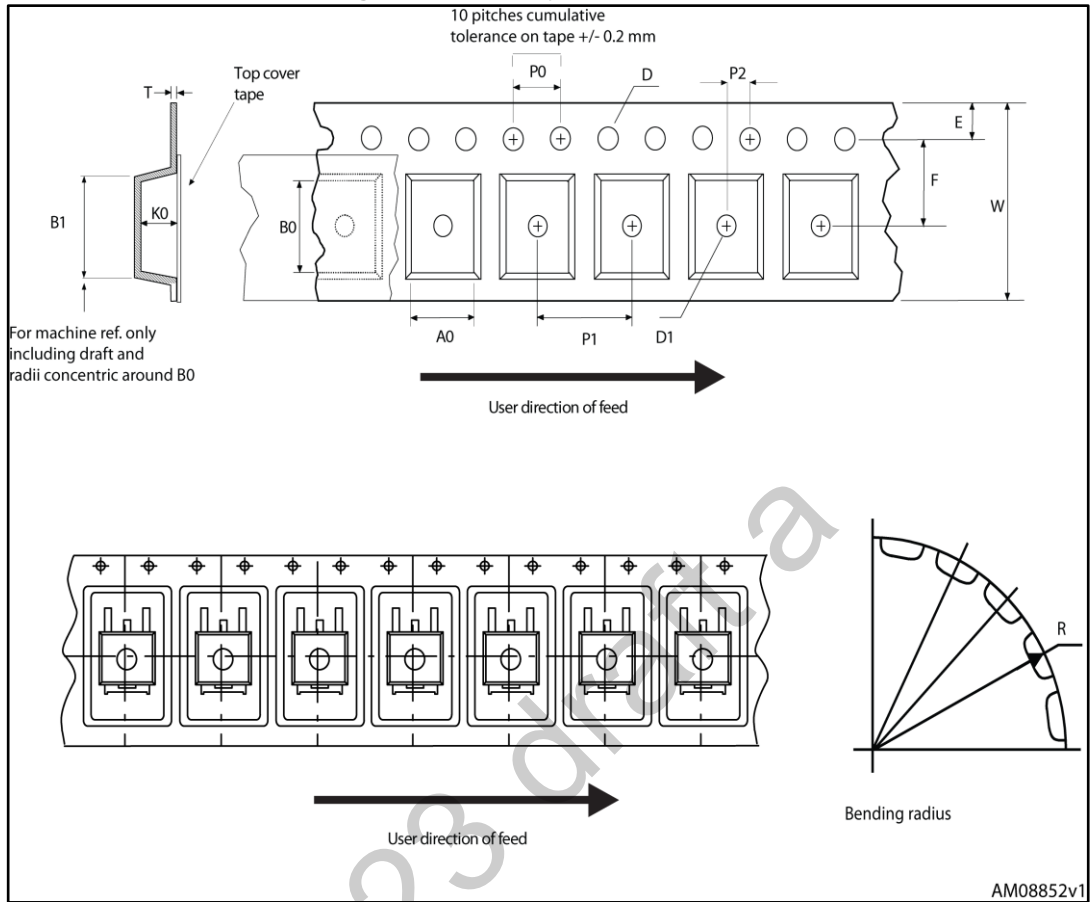
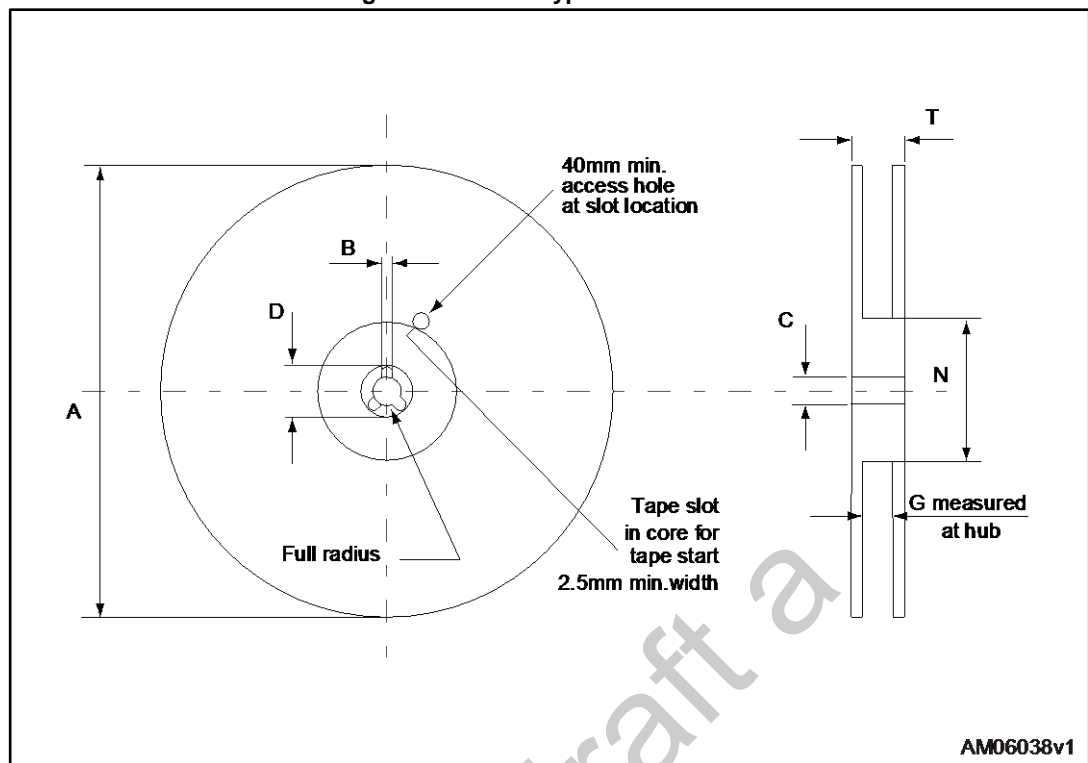




Figure 14: D<sup>2</sup>PAK type A reel outlineTable 15: D<sup>2</sup>PAK type A tape and reel mechanical data

Tape			Reel		
Dim.	mm		Dim.	mm	
	Min.	Max.		Min.	Max.
A0	10.5	10.7	A		330
B0	15.7	15.9	B	1.5	
D	1.5	1.6	C	12.8	13.2
D1	1.59	1.61	D	20.2	
E	1.65	1.85	G	24.4	26.4
F	11.4	11.6	N	100	
K0	4.8	5.0	T		30.4
P0	3.9	4.1			
P1	11.9	12.1	Base quantity		1000
P2	1.9	2.1	Bulk quantity		1000
R	50				
T	0.25	0.35			
W	23.7	24.3			

## 8 Revision history

**Table 16: Document revision history**

Date	Revision	Changes
22-Jun-2004	9	Order codes updated Table 3.
31-Aug-2005	10	Add new order codes (TO-220 E Type) on Table 3.
19-Jan-2007	11	D <sup>2</sup> PAK mechanical data updated and add footprint data.
06-Jun-2007	12	Order codes updated.
25-Oct-2007	13	Modified: <i>Figure 3, Figure 4, Figure 6 and Figure 7.</i>
05-Dec-2007	14	Modified: <i>Table 1.</i>
18-Feb-2008	15	Modified: <i>Table 1 on page 1.</i>
15-Jul-2008	16	Modified: <i>Table 1 on page 1.</i>
19-Jan-2010	17	Modified: <i>Table 11 on page 14, added: Figure 8 on page 16, Figure 9 on page 17, Figure 10 and Figure 11 on page 18.</i>
26-May-2010	18	Modified: VI parameter <i>Table 2 on page 5.</i>
12-Nov-2010	19	Modified: R <sub>thJC</sub> value for TO-220 <i>Table 3 on page 5.</i>
18-Nov-2011	20	Added: order codes L7905CV-DG, L7912CV-DG and L7915CV-DG <i>Table 1 on page 1.</i>
15-May-2012	21	Added: order codes L7908CV-DG <i>Table 1 on page 1.</i>
04-Jun-2014	22	Part numbers L79xxC and L79xxAC changed to L79. Updated the features and the description in cover page. Updated <i>Table 1: Device summary, Section 3: Maximum ratings, Section 4: Test circuit, Section 5: Electrical characteristics, Section 6: Application information, Section 7: Package mechanical data.</i> Added <i>Section 8: Packaging mechanical data.</i> Minor text changes.
27-Sep-2017	23	In <i>Table 4: "Electrical characteristics of L7905AC"</i> : - updated I <sub>sc</sub> and I <sub>scp</sub> Typ. Values In <i>Table 5: "Electrical characteristics of L7905C"</i> : - updated I <sub>sc</sub> Typ. Values In <i>Table 7: "Electrical characteristics of L7912AC"</i> : - updated I <sub>sc</sub> Typ. Value - updated I <sub>scp</sub> Test conditions and Typ. Value In <i>Table 8: "Electrical characteristics of L7915C"</i> : - updated I <sub>sc</sub> Typ. Value In <i>Table 9: "Electrical characteristics of L7915AC"</i> : - updated I <sub>sc</sub> Typ. Value - updated I <sub>scp</sub> Test conditions and Typ. Value In <i>Table 10: "Electrical characteristics of L7915C"</i> - updated I <sub>sc</sub> Typ. Value Updated <i>Section 7: "Package information"</i>

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