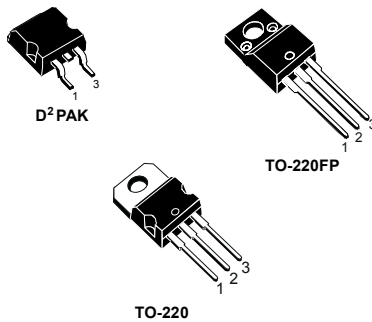


Negative voltage regulators



Features

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

Description

The L79 series of three-terminal negative regulators is available in TO-220, TO-220FP and D²PAK 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.

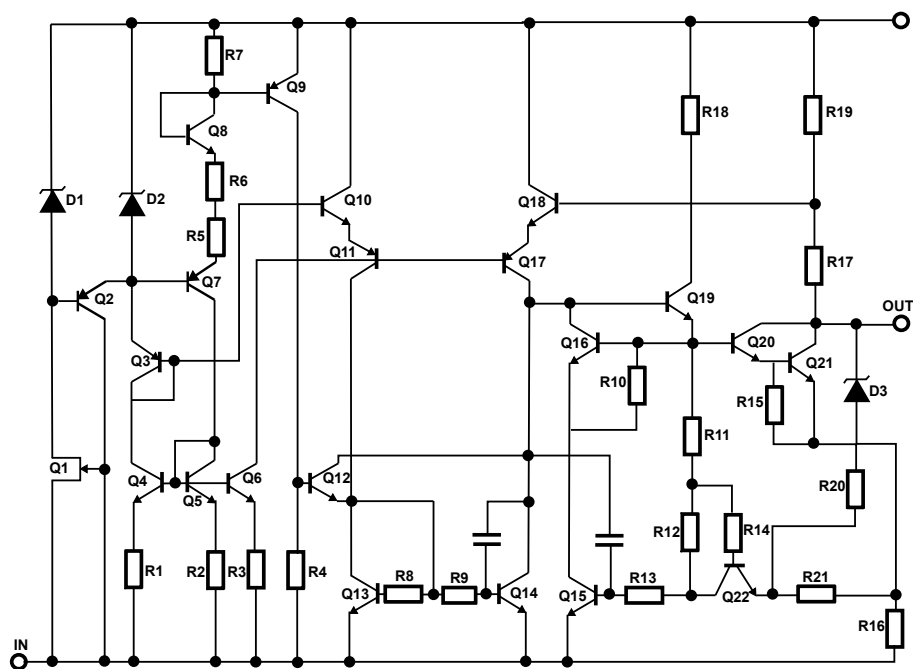
Although designed primarily as fixed voltage regulators, these devices can be used with external components to obtain adjustable voltages and currents.

Maternity status link

L79

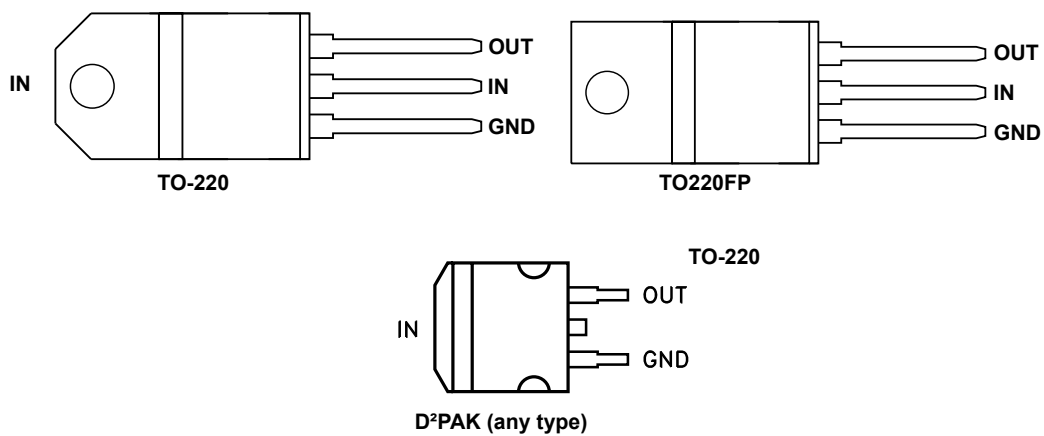
1 Diagram

Figure 1. Schematic diagram



2 Pin configuration

Figure 2. Pin connections (top view)



3 Maximum ratings

Table 1. 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	

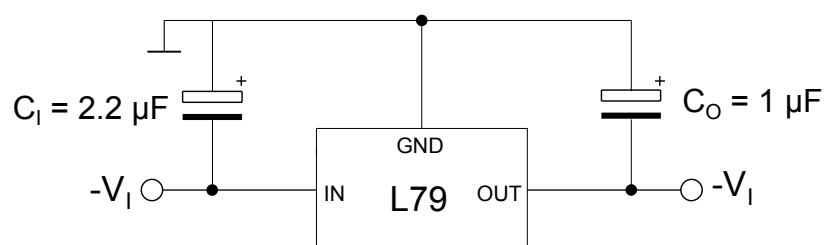
Note: *Note: Absolute maximum ratings are those values beyond which damage to the device may occur. Functional operation under these condition is not implied.*

Table 2. Thermal data

Symbol	Parameter	D ² 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



5 Electrical characteristics

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

Table 3. Electrical characteristics of L7905AC

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

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 $125\text{ }^{\circ}\text{C}$, $V_I = -10\text{ V}$, $I_O = 500\text{ mA}$, $C_I = 2.2\text{ }\mu\text{F}$, $C_O = 1\text{ }\mu\text{F}$ unless otherwise specified.

Table 4. Electrical characteristics of L7905C

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

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
ΔI_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	$B = 10 \text{ Hz to } 100 \text{ kHz}, T_J = 25 \text{ °C}$		100		μV
SVR	Supply voltage rejection	$\Delta V_I = 10 \text{ V}, f = 120 \text{ Hz}$	54	60		dB
V_d	Dropout voltage	$I_O = 1 \text{ A}, T_J = 25 \text{ °C}, \Delta V_O = 100 \text{ mV}$		1.4		V
I_{sc}	Short circuit current			1.8		A

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, $T_J = 0 \text{ to } 125 \text{ °C}$, $V_I = -14 \text{ V}$, $I_O = 500 \text{ mA}$, $C_I = 2.2 \text{ μF}$, $C_O = 1 \text{ μF}$ unless otherwise specified.

Table 5. Electrical characteristics of L7908C

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$T_J = 25 \text{ °C}$	-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	$V_I = -10.5 \text{ to } -25 \text{ V}, T_J = 25 \text{ °C}$			160	mV
		$V_I = -11 \text{ to } -17 \text{ V}, T_J = 25 \text{ °C}$			80	
$\Delta V_O^{(1)}$	Load regulation	$I_O = 5 \text{ mA to } 1.5 \text{ A}, T_J = 25 \text{ °C}$			160	mV
		$I_O = 250 \text{ to } 750 \text{ mA}, T_J = 25 \text{ °C}$			80	
I_d	Quiescent current	$T_J = 25 \text{ °C}$			3	mA
ΔI_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	$B = 10 \text{ Hz to } 100 \text{ kHz}, T_J = 25 \text{ °C}$		175		μV
SVR	Supply voltage rejection	$\Delta V_I = 10 \text{ V}, f = 120 \text{ Hz}$	54	60		dB
V_d	Dropout voltage	$I_O = 1 \text{ A}, T_J = 25 \text{ °C}, \Delta V_O = 100 \text{ mV}$		1.1		V
I_{sc}	Short circuit current			1.5		A

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 $125\text{ }^{\circ}\text{C}$, $V_I = -19\text{ V}$, $I_O = 500\text{ mA}$, $C_I = 2.2\text{ }\mu\text{F}$, $C_O = 1\text{ }\mu\text{F}$ unless otherwise specified.

Table 6. Electrical characteristics of L7912AC

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

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 $125\text{ }^{\circ}\text{C}$, $V_I = -19\text{ V}$, $I_O = 500\text{ mA}$, $C_I = 2.2\text{ }\mu\text{F}$, $C_O = 1\text{ }\mu\text{F}$ unless otherwise specified.

Table 7. Electrical characteristics of L7912C

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

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
ΔI_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	$B = 10 \text{ Hz to } 100 \text{ kHz}, T_J = 25 \text{ °C}$		200		μV
SVR	Supply voltage rejection	$\Delta V_I = 10 \text{ V}, f = 120 \text{ Hz}$	54	60		dB
V_d	Dropout voltage	$I_O = 1 \text{ A}, T_J = 25 \text{ °C}, \Delta V_O = 100 \text{ mV}$		1.1		V
I_{sc}	Short circuit current			1.0		A

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, $T_J = 0 \text{ to } 125 \text{ °C}$, $V_I = -23 \text{ V}$, $I_O = 500 \text{ mA}$, $C_I = 2.2 \text{ μF}$, $C_O = 1 \text{ μF}$ unless otherwise specified.

Table 8. Electrical characteristics of L7915AC

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$T_J = 25 \text{ °C}$	-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	$V_I = -17.5 \text{ to } -30 \text{ V}, T_J = 25 \text{ °C}$			300	mV
		$V_I = -20 \text{ to } -26 \text{ V}, T_J = 25 \text{ °C}$			150	
$\Delta V_O^{(1)}$	Load regulation	$I_O = 5 \text{ mA to } 1.5 \text{ A}, T_J = 25 \text{ °C}$			300	mV
		$I_O = 250 \text{ to } 750 \text{ mA}, T_J = 25 \text{ °C}$			150	
I_d	Quiescent current	$T_J = 25 \text{ °C}$			3	mA
ΔI_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	$B = 10 \text{ Hz to } 100 \text{ kHz}, T_J = 25 \text{ °C}$		250		μV
SVR	Supply voltage rejection	$\Delta V_I = 10 \text{ V}, f = 120 \text{ Hz}$	54	60		dB
V_d	Dropout voltage	$I_O = 1 \text{ A}, T_J = 25 \text{ °C},$ $\Delta V_O = 100 \text{ mV}$		1.1		V
I_{sc}	Short circuit current			0.7		A
I_{scp}	Short circuit peak current	$T_J = 25 \text{ °C}, V_I = -10 \text{ V}$		1.8		A

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 $125\text{ }^{\circ}\text{C}$, $V_I = -23\text{ V}$, $I_O = 500\text{ mA}$, $C_I = 2.2\text{ }\mu\text{F}$, $C_O = 1\text{ }\mu\text{F}$ unless otherwise specified.

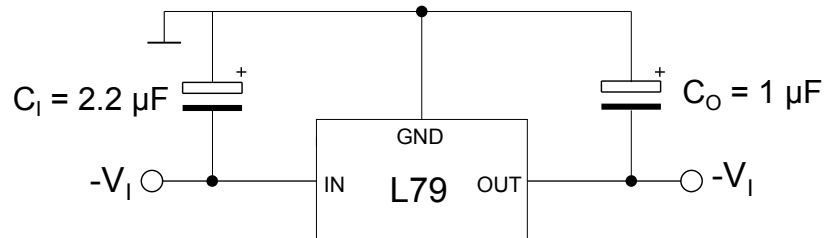
Table 9. Electrical characteristics of L7915C

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

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.

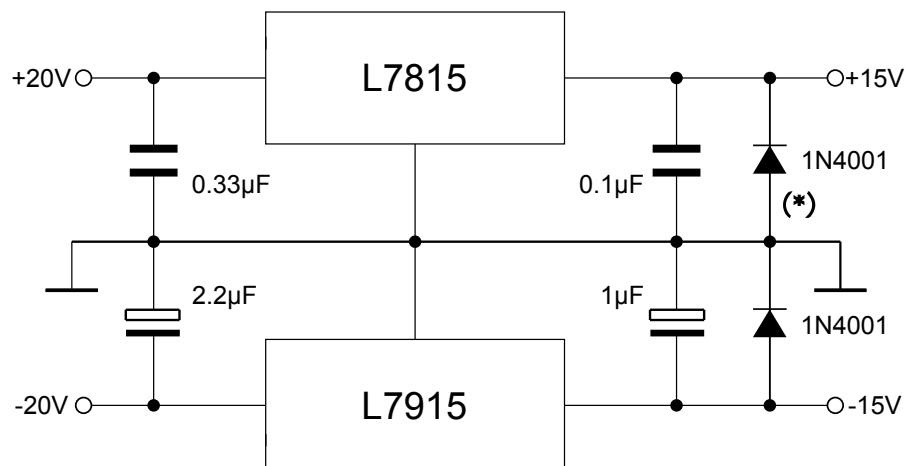
6 Application information

Figure 4. Fixed output regulator

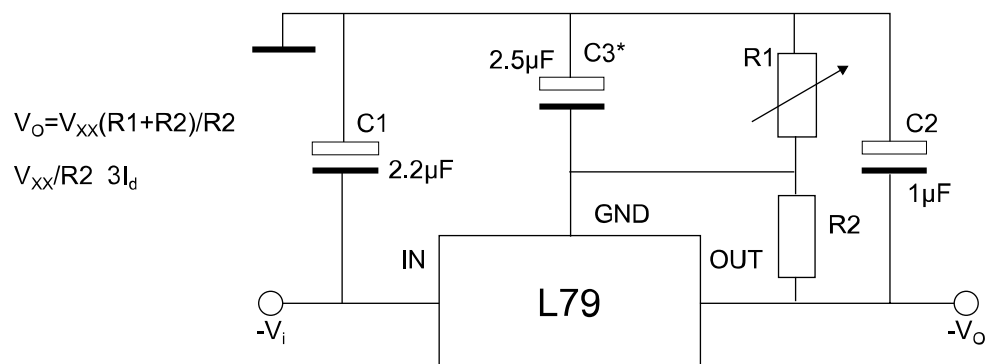


Note: C_I is required for stability. For value given, capacitor must be solid tantalum. If aluminium electrolytic are used, at least ten times value should be selected. C_O is required if regulator is located an appreciable distance from power supply filter. To improve transient response. If large capacitors 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.

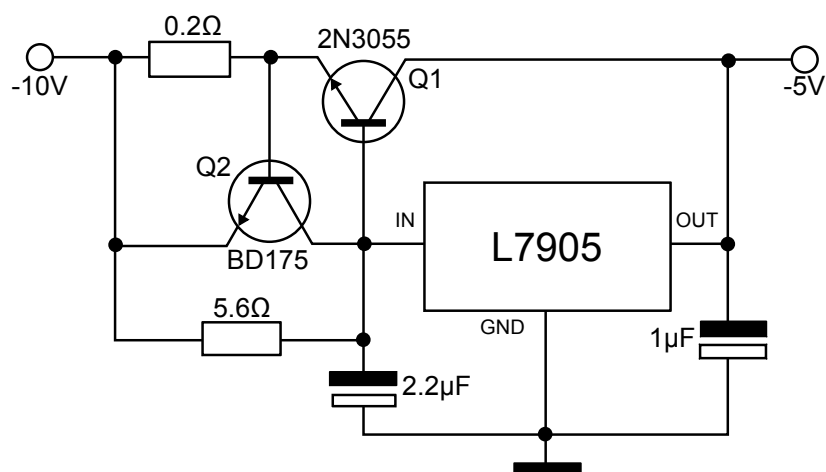
Figure 5. Split power supply ($\pm 15\text{ V} - 1\text{ A}$)



* Against potential latch-up problems

Figure 6. Circuit for increasing output voltage


* C3 Optional for improved transient response and ripple rejection.

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


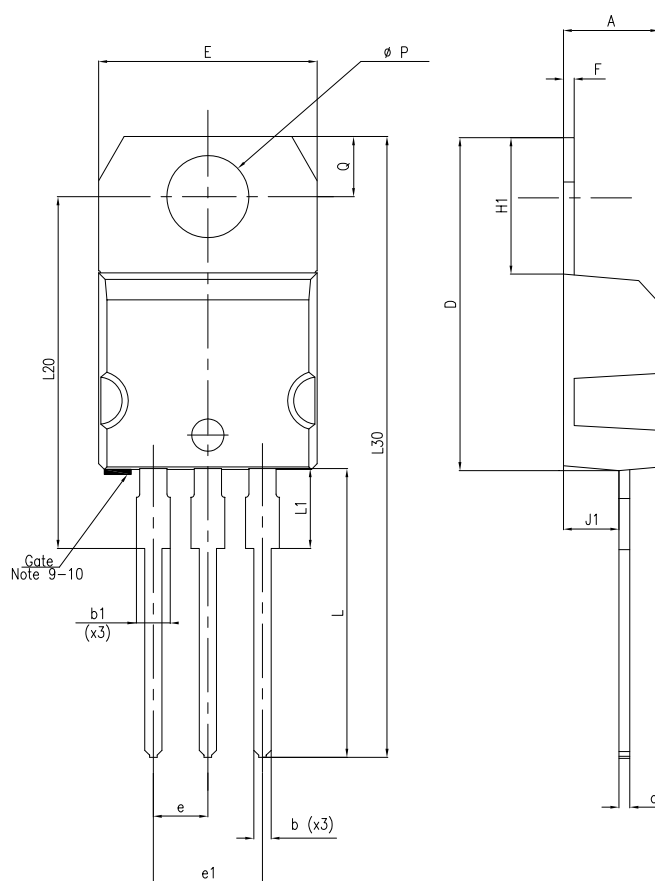
7 Package information

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 TO-220 (single gauge) package information

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



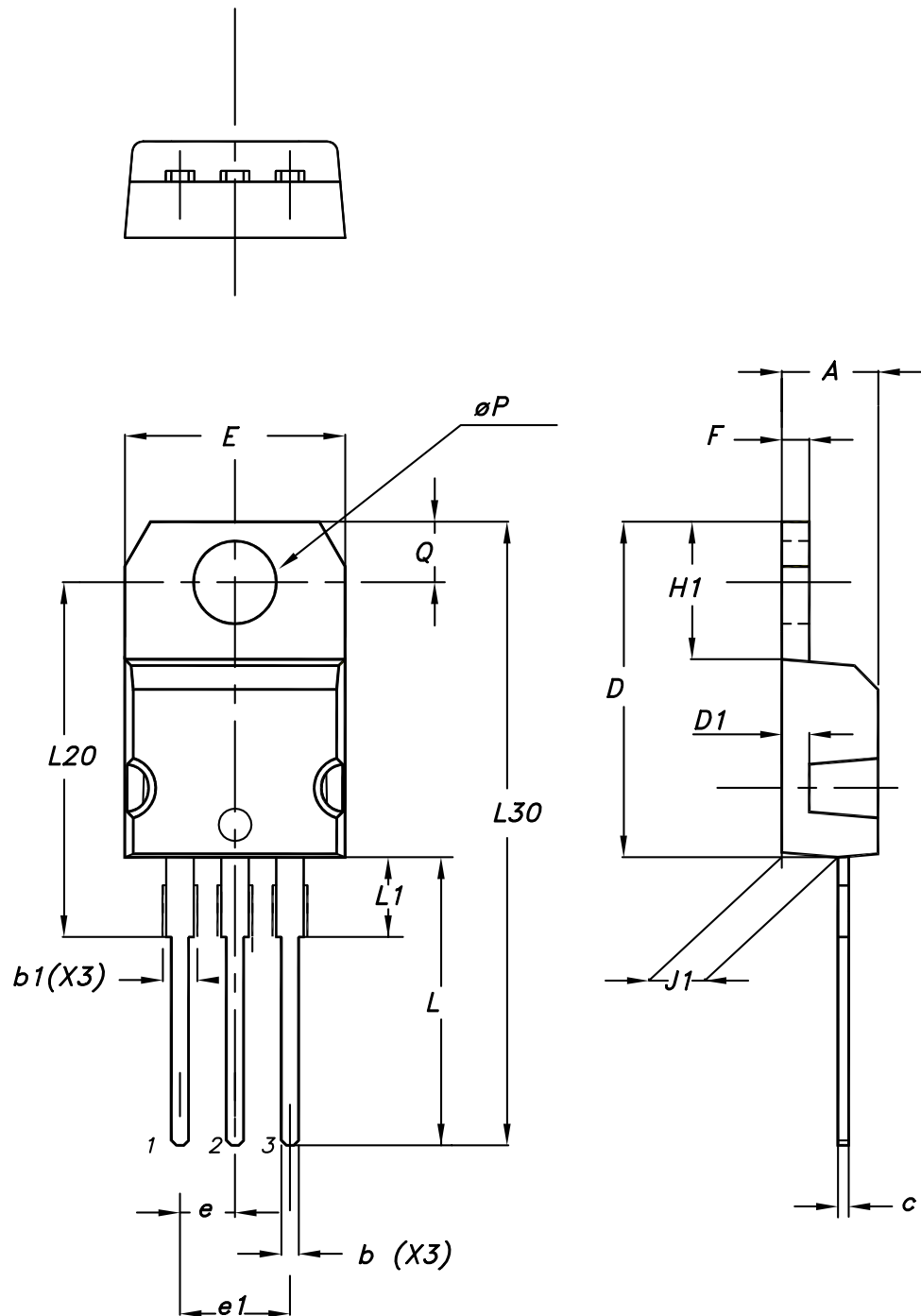
8174627 Rev 6

Table 10. 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



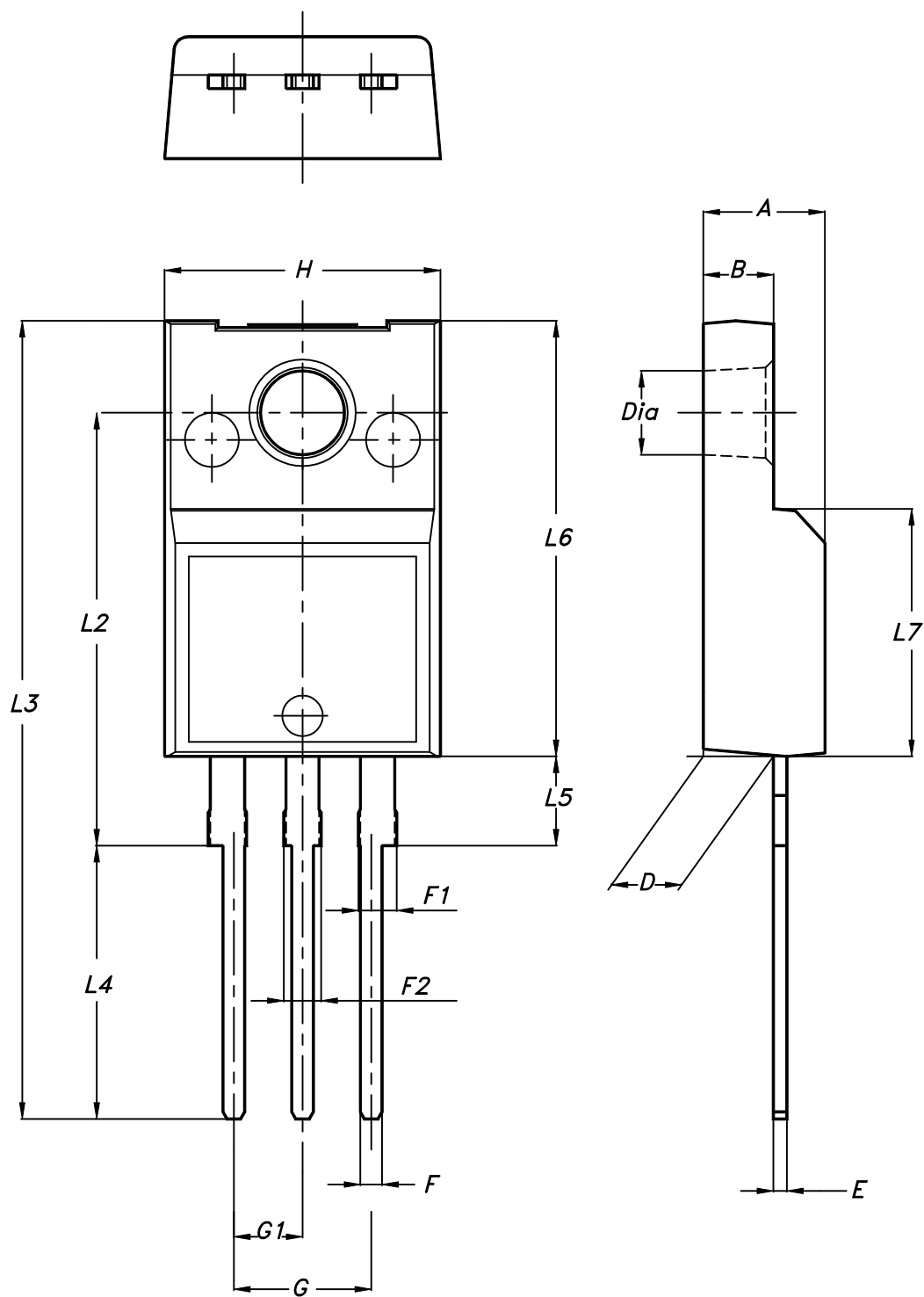
0015988_typeA_Rev_22

Table 11. 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



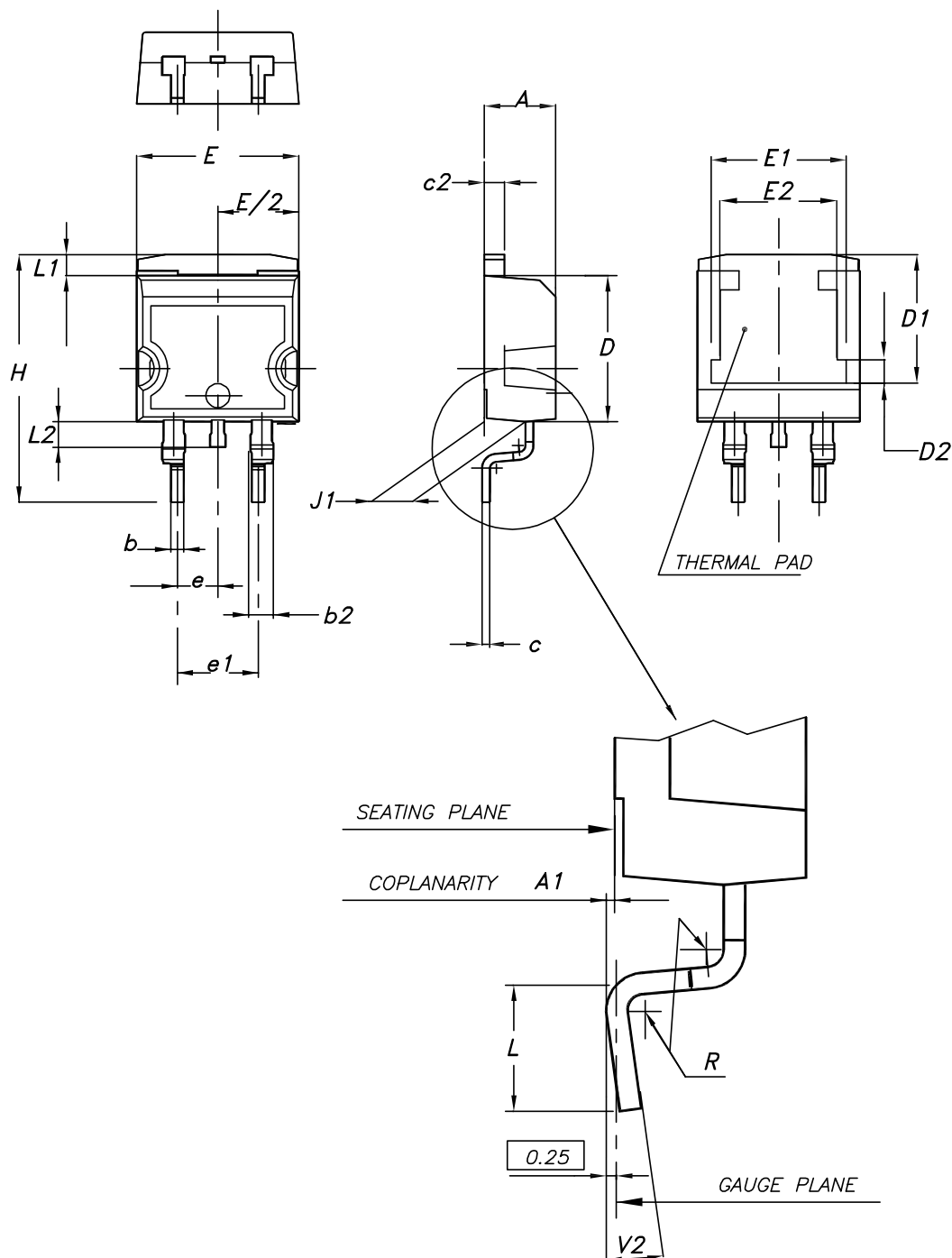
7012510_Rev_12_B

Table 12. 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 D²PAK (TO-263) type A package information

Figure 11. D²PAK (TO-263) type A package outline

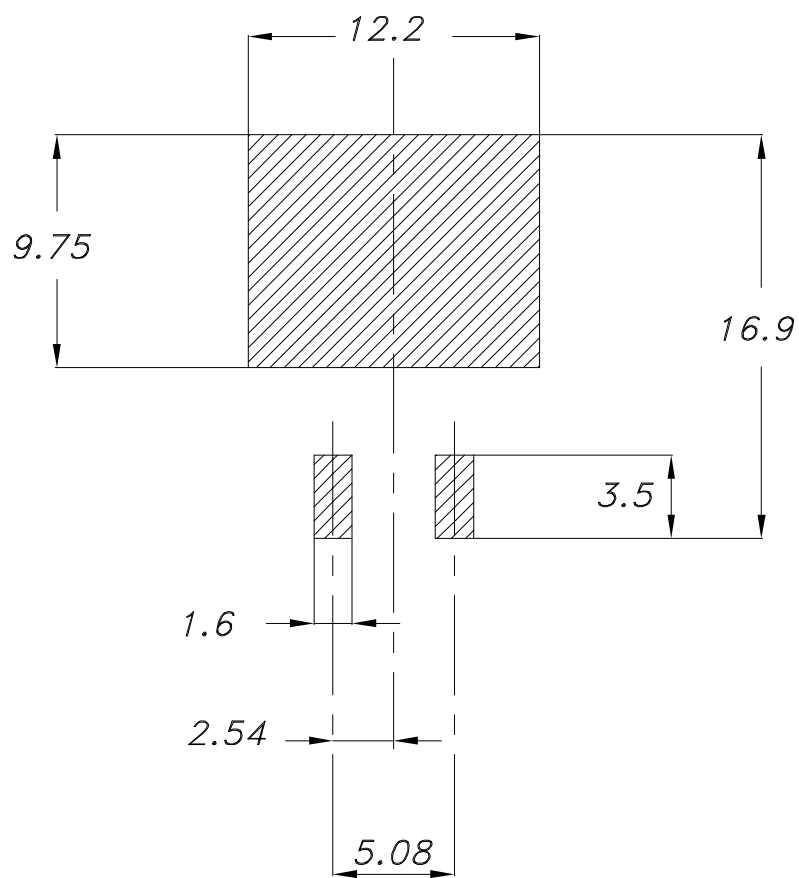


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Table 13. D²PAK (TO-263) type A package mechanical data

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	8.30	8.50	8.70
E2	6.85	7.05	7.25
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°

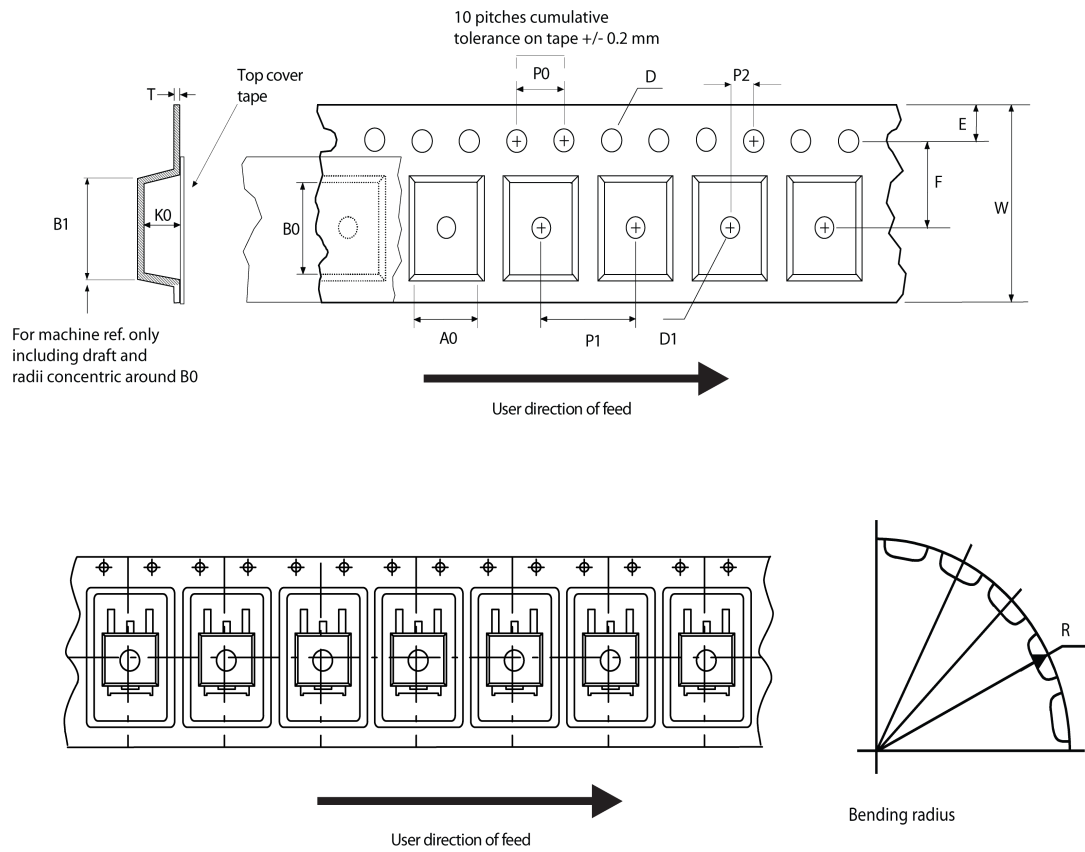
Figure 12. D²PAK (TO-263) recommended footprint (dimensions are in mm)



Footprint

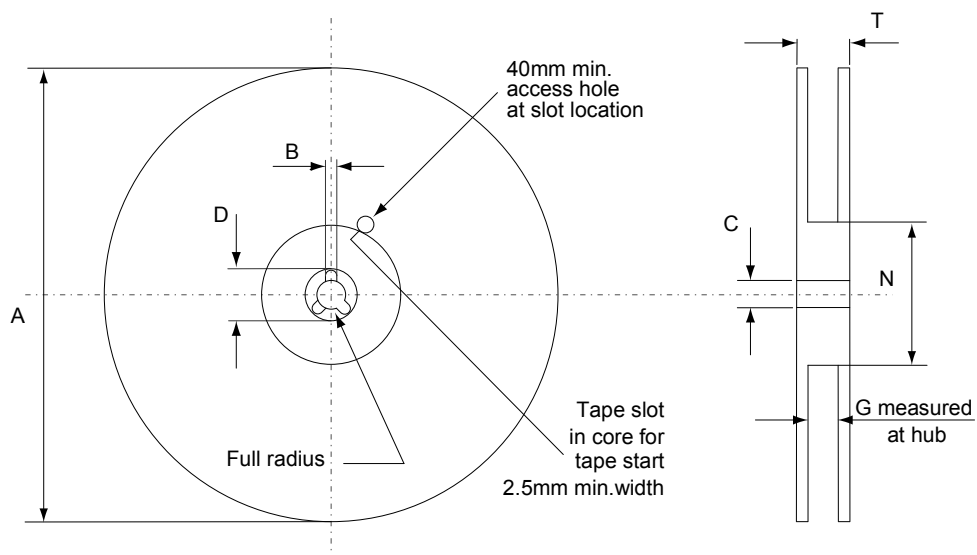
7.5 D²PAK packing information

Figure 13. D²PAK tape outline



AM08852v1

Figure 14. D²PAK reel outline



AM06038v1

Table 14. D²PAK 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 Device summary

Table 15. Order codes

TO-220 (single gauge)	TO-220 (dual gauge)	D ² PAK	TO-220FP	Output voltages
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

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 ² PAK mechanical data updated and add footprint data.
06-Jun-2007	12	Order codes updated.
25-Oct-2007	13	Modified: Figure 3, Figure 4, Figure 6 and Figure 7.
05-Dec-2007	14	Modified: Table 1.
18-Feb-2008	15	Modified: Table 1 on page 1.
15-Jul-2008	16	Modified: Table 1 on page 1.
19-Jan-2010	17	Modified: Table 11 on page 14, added: Figure 8 on page 16, Figure 9 on page 17, Figure 10 and Figure 11 on page 18.
26-May-2010	18	Modified: VI parameter Table 2 on page 5.
12-Nov-2010	19	Modified: R _{thJC} value for TO-220 Table 3 on page 5.
18-Nov-2011	20	Added: order codes L7905CV-DG, L7912CV-DG and L7915CV-DG Table 1 on page 1.
15-May-2012	21	Added: order codes L7908CV-DG Table 1 on page 1.
04-Jun-2014	22	Part numbers L79xxC and L79xxAC changed to L79. Updated the features and the description in cover page. Updated 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. Added Section 8: Packaging mechanical data. Minor text changes.
27-Sep-2017	23	In Table 4: "Electrical characteristics of L7905AC": - updated I _{sc} and I _{scp} Typ. Values In Table 5: "Electrical characteristics of L7905C": - updated I _{sc} Typ. Values In Table 7: "Electrical characteristics of L7912AC": - updated I _{sc} Typ. Value - updated I _{scp} Test conditions and Typ. Value In Table_8_Electrical_characteristics_of_L - updated I _{sc} Typ. Value In Table 9: "Electrical characteristics of L7915AC": - updated I _{sc} Typ. Value - updated I _{scp} Test conditions and Typ. Value In Table 10: "Electrical characteristics of L7915C" - updated I _{sc} Typ. Value Updated Section 7: "Package information"
15-Jan-2019	24	Updated: Section 5 Electrical characteristics .

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