

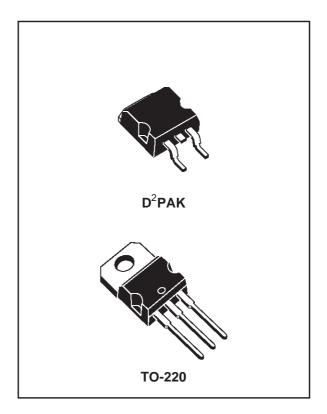
L7800AB/AC SERIES

PRECISION 1A REGULATORS

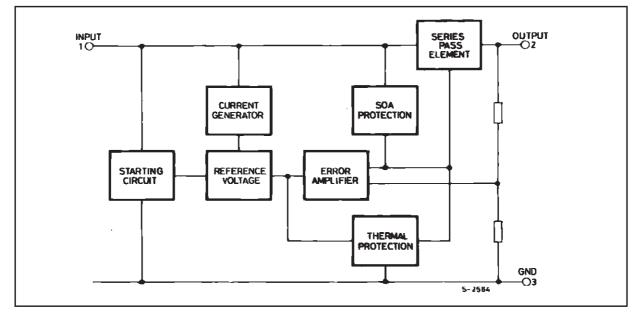
- OUTPUT CURRENT IN EXCESS OF 1 A
- OUTPUT VOLTAGES OF 5; 6; 8; 9; 12; 15; 18; 20; 24V
- THERMAL OVERLOAD PROTECTION
- OUTPUT TRANSITION SOA PROTECTION
- 2% OUTPUT VOLTAGE TOLERANCE
- GUARANTEED IN EXTENDED TEMPERATURE RANGE

DESCRIPTION

The L7800A series of three-terminal positive regulators is available in TO-220 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. Each type employs internal current limiting, thermal shut-down and safe area protection, making it essentially indestructible. If adequate heat sinking is provided, they can deliver over 1A output current. Although designed primarily as fixed voltage regulators, these devices can be used with external components to obtain adjustable voltages and currents.



BLOCK DIAGRAM



August 1999

L7800AB/AC

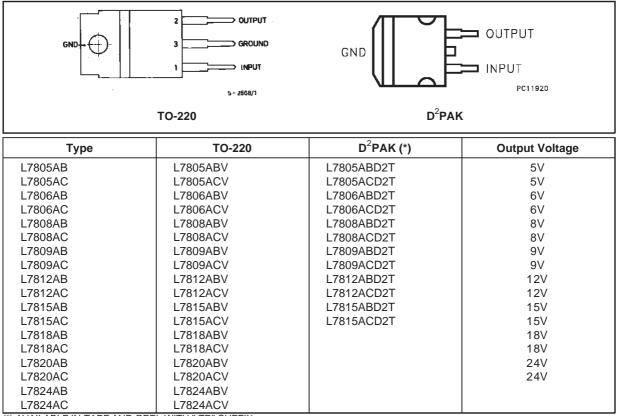
ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
Vi	DC Input Voltage (for $V_0 = 5$ to 18V) (for $V_0 = 20, 24V$)	35 40	V V
I _o	Output Current	Internally limited	
Ptot	Power Dissipation	Internally limited	
T _{op}	Operating Junction Temperature Range (for L7800AC) (for L7800AB)	0 to 125 -40 to 125	°C °C
T _{stg}	Storage Temperature Range	- 65 to 150	°C

THERMAL DATA

Symbol	ol Parameter		TO-220	Unit
	Thermal Resistance Junction-case Max Thermal Resistance Junction-ambient Max	3	3	°C/W °C/W
R _{thj-amb}	Thermal Resistance Junction-ambient Max	62.5	50	C/ VV

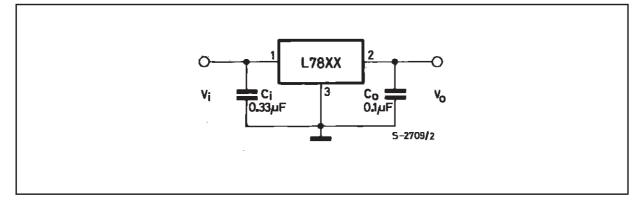
CONNECTION DIAGRAM AND ORDERING NUMBERS (top view)



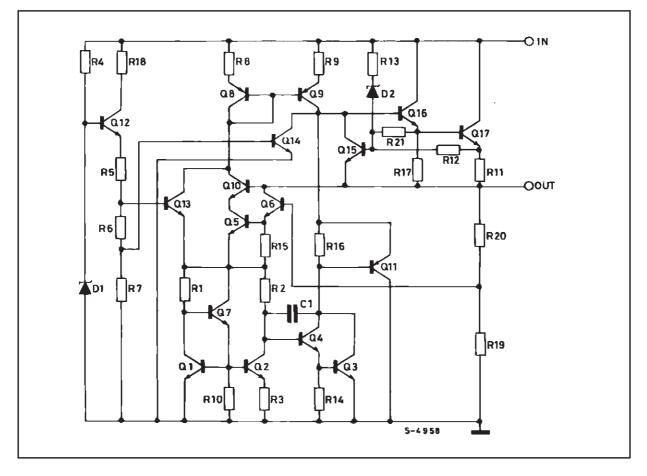
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(*) AVAILABLE IN TAPE AND REEL WITH "-TR" SUFFIX

APPLICATION CIRCUIT



SCHEMATIC DIAGRAM



TEST CIRCUITS

Figure 1 : DC Parameter

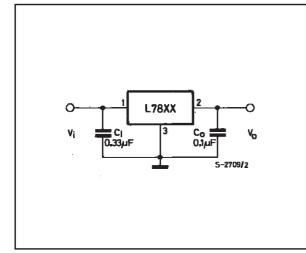


Figure 3 : Ripple Rejection.

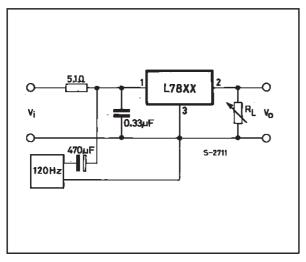
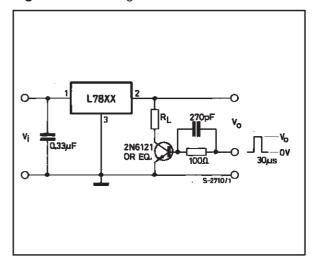


Figure 2 : Load Regulation.



Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Vo	Output Voltage	$T_j = 25 °C$	4.9	5	5.1	V
Vo	Output Voltage	$ I_o = 5 \text{ mA to 1 A} \qquad P_o \le 15 \text{ W} \\ V_i = 7.5 \text{ to 20 V} $	4.8	5	5.2	V
ΔV_0^*	$ \begin{array}{c} \text{Line Regulation} \\ \text{Line Regulation} \\ \text{V}_{i} = 7.5 \text{ to } 25 \text{ V} \\ \text{V}_{i} = 8 \text{ to } 12 \text{ V} \\ \text{V}_{i} = 8 \text{ to } 12 \text{ V} \\ \text{V}_{i} = 8 \text{ to } 12 \text{ V} \\ \text{V}_{i} = 7.3 \text{ to } 20 \text{ V} \\ \text{T}_{j} = 25 \ ^{\circ}\text{C} \\ \text{V}_{i} = 7.3 \text{ to } 20 \text{ V} \\ \end{array} $			7 10 2 7	50 5 25 50	mV mV mV mV
ΔV_0^{*}	Load Regulation	$ I_{o} = 5 \text{ mA to 1 A} I_{o} = 5 \text{ mA to 1.5 A} T_{j} = 25 ^{\circ}\text{C} I_{o} = 250 \text{ to } 750 \text{ mA} $		25 30 8	100 100 50	mV mV mV
l _d	Quiescent Current	$T_j = 25 \ ^{\circ}C$		4.3	6 6	mA
ΔI_d	Quiescent Current Change				0.8 0.8 0.5	mA mA mA
SVR	Supply Voltage Rejection	$V_i = 8 \text{ to } 18 \text{ V}$ f = 120 Hz I _o = 500 mA		68		dB
V_{d}	Dropout Voltage	$I_o = 1 A$ $T_j = 25 °C$		2		V
e _N	Output Noise Voltage	$B = 10$ Hz to 100KHz $T_j = 25 \ ^{\circ}C$		10		μV/V _o
Ro	Output Resistance	f = 1KHz		17		mΩ
lsc	Short Circuit Current	$V_i = 35 V$ $T_{amb} = 25 °C$		0.2		А
Iscp	Short Circuit Peack Current	$T_j = 25 °C$		2.2		A

ELECTRICAL CHARACTERISTICS FOR L7805A ($V_i = 10V$, $I_o = 1$ A, $T_j = 0$ to 125 °C (L7805AC), $T_j = -40$ to 125 °C (L7805AB) unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Vo	Output Voltage	$T_j = 25 °C$	5.88	6	6.12	V
Vo	Output Voltage	$ I_o = 5 \text{ mA to 1 A} \qquad P_o \leq 15 \text{ W} \\ V_i = 8.6 \text{ to 21 V} $	5.76	6	6.24	V
ΔV_0^*	Line Regulation	$ \begin{array}{ll} V_i = 8.6 \mbox{ to } 25 \mbox{ V} & I_o = 500 \mbox{ mA} \\ V_i = 9 \mbox{ to } 13 \mbox{ V} \\ V_i = 9 \mbox{ to } 13 \mbox{ V} & T_j = 25 ^o\mbox{C} \\ V_i = 8.3 \mbox{ to } 21 \mbox{ V} & T_j = 25 ^o\mbox{C} \\ \end{array} $		9 11 3 9	60 60 30 60	mV mV mV mV
ΔV_0^*	Load Regulation	$ I_o = 5 \text{ mA to 1 A} I_o = 5 \text{ mA to 1.5 A} T_j = 25 \ ^o\text{C} \\ I_o = 250 \text{ to } 750 \text{ mA} $		25 30 10	100 100 50	mV mV mV
۱ _d	Quiescent Current	$T_j = 25 ^{\circ}C$		4.3	6 6	mA
ΔI_d	Quiescent Current Change				0.8 0.8 0.5	mA mA mA
SVR	Supply Voltage Rejection	$V_i = 9 \text{ to } 19 \text{ V}$ f = 120 Hz I _o = 500 mA		65		dB
Vd	Dropout Voltage	$I_{o} = 1 \text{ A}$ $T_{j} = 25 ^{o}\text{C}$		2		V
e _N	Output Noise Voltage	$B = 10Hz$ to 100KHz $T_j = 25 °C$		10		μV/V _o
Ro	Output Resistance	f = 1KHz		17		mΩ
l _{sc}	Short Circuit Current	$V_i = 35 V$ $T_{amb} = 25 °C$		0.2		А
Iscp	Short Circuit Peack Current	$T_j = 25 °C$		2.2		А

ELECTRICAL CHARACTERISTICS FOR L7806A (V_i = 11V, I_o = 1 A, T_j = 0 to 125 $^{\circ}$ C (L7806AC), T_j = -40 to 125 $^{\circ}$ C (L7806AB) unless otherwise specified)

 * 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.

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Vo	Output Voltage	$T_j = 25 °C$	7.84	8	8.16	V
Vo	Output Voltage		7.7	8	8.3	V
ΔV_0^*	Line Regulation			12 15 5 12	80 80 40 80	mV mV mV mV
ΔV_{o}^{*}	Load Regulation	$I_o = 5 \text{ mA to 1 A}$ $I_o = 5 \text{ mA to 1.5 A}$ $T_j = 25 \degree C$ $I_o = 250 \text{ to 750 mA}$		25 30 10	100 100 50	mV mV mV
l _d	Quiescent Current	$T_j = 25 ^{\circ}C$		4.3	6 6	mA
ΔI_d	Quiescent Current Change				0.8 0.8 0.5	mA mA mA
SVR	Supply Voltage Rejection	$V_i = 11.5 \text{ to } 21.5 \text{ V}$ f = 120 Hz I _o = 500 mA		62		dB
V_{d}	Dropout Voltage	$I_o = 1 A$ $T_j = 25 °C$		2		V
e _N	Output Noise Voltage	$B = 10$ Hz to 100KHz $T_j = 25 \ ^{\circ}C$		10		μV/V _o
Ro	Output Resistance	f = 1KHz		18		mΩ
lsc	Short Circuit Current	$V_i = 35 V$ $T_{amb} = 25 °C$		0.2		A
Iscp	Short Circuit Peack Current	$T_j = 25 °C$		2.2		A

ELECTRICAL CHARACTERISTICS FOR L7808A ($V_i = 14V$, $I_o = 1$ A, $T_j = 0$ to 125 °C (L7808AC), $T_j = -40$ to 125 °C (L7808AB) unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Vo	Output Voltage	$T_j = 25 °C$	8.82	9	9.18	V
Vo	Output Voltage	$ I_o = 5 \text{ mA to 1 A} \qquad P_o \le 15 \text{ W} \\ V_i = 10.6 \text{ to 23 V} $	8.65	9	9.35	V
ΔV_0^*	Line Regulation	$ \begin{array}{l} V_i = 10.6 \text{to} 25 \text{V} & I_o = 500 \text{mA} \\ V_i = 11 \text{to} 17 \text{V} & \\ V_i = 11 \text{to} 17 \text{V} & \\ T_j = 25 ^{o}\text{C} \\ V_i = 10.4 \text{to} 23 \text{V} & \\ T_j = 25 ^{o}\text{C} \end{array} $		12 15 5 12	90 90 45 90	mV mV mV mV
ΔV_{o}^{*}	Load Regulation	$I_o = 5 \text{ mA to 1 A}$ $I_o = 5 \text{ mA to 1.5 A}$ $T_j = 25 \degree C$ $I_o = 250 \text{ to 750 mA}$		25 30 10	100 100 50	mV mV mV
Ι _d	Quiescent Current	$T_j = 25 ^{\circ}C$		4.3	6 6	mA
ΔI_d	Quiescent Current Change				0.8 0.8 0.5	mA mA mA
SVR	Supply Voltage Rejection	$V_i = 11.5 \text{ to } 21.5 \text{ V}$ f = 120 Hz I _o = 500 mA		61		dB
Vd	Dropout Voltage	$I_0 = 1 \text{ A}$ $T_j = 25 ^{\circ}\text{C}$		2		V
e _N	Output Noise Voltage	$B = 10$ Hz to 100KHz $T_j = 25 \ ^{\circ}C$		10		μV/V _o
Ro	Output Resistance	f = 1KHz		18		mΩ
lsc	Short Circuit Current	$V_i = 35 V$ $T_{amb} = 25 °C$		0.2		A
Iscp	Short Circuit Peack Current	$T_j = 25 °C$		2.2		A

ELECTRICAL CHARACTERISTICS FOR L7809A (V_i = 15V, I_o = 1 A, T_j = 0 to 125 $^{\circ}$ C (L7809AC), T_j = -40 to 125 $^{\circ}$ C (L7809AB) unless otherwise specified)

 * 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.

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Vo	Output Voltage	$T_j = 25 °C$	11.75	12	12.25	V
Vo	Output Voltage	$ I_o = 5 \text{ mA to 1 A} \qquad P_o \le 15 \text{ W} \\ V_i = 14.8 \text{ to 27 V} $	11.5	12	12.5	V
ΔV_0^*	Line Regulation			13 16 6 13	120 120 60 120	mV mV mV mV
ΔV_{o}^{*}	Load Regulation	$I_o = 5 \text{ mA to 1 A}$ $I_o = 5 \text{ mA to 1.5 A}$ $T_j = 25 \degree C$ $I_o = 250 \text{ to 750 mA}$		25 30 10	100 100 50	mV mV mV
l _d	Quiescent Current	$T_j = 25 ^{\circ}C$		4.4	6 6	mA
ΔI_d	Quiescent Current Change				0.8 0.8 0.5	mA mA mA
SVR	Supply Voltage Rejection	$V_i = 15 \text{ to } 25 \text{ V}$ f = 120 Hz I _o = 500 mA		60		dB
V_{d}	Dropout Voltage	$I_o = 1 A$ $T_j = 25 °C$		2		V
e _N	Output Noise Voltage	$B = 10$ Hz to 100KHz $T_j = 25 \ ^{\circ}C$		10		μV/V _o
Ro	Output Resistance	f = 1KHz		18		mΩ
lsc	Short Circuit Current	$V_i = 35 V$ $T_{amb} = 25 °C$		0.2		A
Iscp	Short Circuit Peack Current	$T_j = 25 °C$		2.2		A

ELECTRICAL CHARACTERISTICS FOR L7812A (V_i = 19V, I_o = 1 A, T_j = 0 to 125 $^{\circ}$ C (L7812AC), T_j = -40 to 125 $^{\circ}$ C (L7812AB) unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Vo	Output Voltage	$T_j = 25 °C$	14.7	15	15.3	V
Vo	Output Voltage	$ I_o = 5 \text{ mA to 1 A} \qquad P_o \leq 15 \text{ W} \\ V_i = 17.9 \text{ to 30 V} $	14.4	15	15.6	V
ΔV_0^*	Line Regulation	$ \begin{array}{l} V_i = 17.9 \mbox{ to } 30 \mbox{ V} & I_o = 500 \mbox{ mA} \\ V_i = 20 \mbox{ to } 26 \mbox{ V} \\ V_i = 20 \mbox{ to } 26 \mbox{ V} & T_j = 25 ^o \mbox{C} \\ V_i = 17.5 \mbox{ to } 30 \mbox{ V} & T_j = 25 ^o \mbox{C} \\ \end{array} $		13 16 6 13	150 150 75 150	mV mV mV mV
ΔV_{o}^{*}	Load Regulation	$ I_o = 5 \text{ mA to 1 A} I_o = 5 \text{ mA to 1.5 A} T_j = 25 \ ^o\text{C} \\ I_o = 250 \text{ to } 750 \text{ mA} $		25 30 10	100 100 50	mV mV mV
۱ _d	Quiescent Current	$T_j = 25 \ ^{\circ}C$		4.4	6 6	mA
ΔI_d	Quiescent Current Change				0.8 0.8 0.5	mA mA mA
SVR	Supply Voltage Rejection	$V_i = 18.5 \text{ to } 28.5 \text{ V}$ f = 120 Hz I _o = 500 mA		58		dB
Vd	Dropout Voltage	$I_{o} = 1 \text{ A}$ $T_{j} = 25 ^{o}\text{C}$		2		V
e _N	Output Noise Voltage	$B = 10Hz \text{ to } 100KHz T_j = 25 ^{\circ}C$		10		μV/V _o
Ro	Output Resistance	f = 1KHz		19		mΩ
lsc	Short Circuit Current	$V_i = 35 V$ $T_{amb} = 25 °C$		0.2		A
Iscp	Short Circuit Peack Current	$T_j = 25 °C$		2.2		А

ELECTRICAL CHARACTERISTICS FOR L7815A (Vi = 23V, Io = 1 A, Tj = 0 to 125 $^{\circ}$ C (L7815AC), Tj = -40 to 125 $^{\circ}$ C (L7815AB) unless otherwise specified)

 * 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.

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Vo	Output Voltage	$T_j = 25 °C$	17.64	18	18.36	V
Vo	Output Voltage	$ I_o = 5 \text{ mA to 1 A} \qquad P_o \leq 15 \text{ W} \\ V_i = 21 \text{ to 33 V} $	17.3	18	18.7	V
ΔV_0^*	Line Regulation			25 28 10 5	180 180 90 180	mV mV mV mV
ΔV_{o}^{*}	Load Regulation	$I_o = 5 \text{ mA to 1 A}$ $I_o = 5 \text{ mA to 1.5 A}$ $T_j = 25 ^{o}\text{C}$ $I_o = 250 \text{ to } 750 \text{ mA}$		25 30 10	100 100 50	mV mV mV
l _d	Quiescent Current	$T_j = 25 ^{\circ}C$		4.5	6 6	mA
ΔI_d	Quiescent Current Change				0.8 0.8 0.5	mA mA mA
SVR	Supply Voltage Rejection	$V_i = 22 \text{ to } 32 \text{ V}$ $f = 120 \text{ Hz}$ $I_o = 500 \text{ mA}$		57		dB
Vd	Dropout Voltage	$I_{o} = 1 \text{ A}$ $T_{j} = 25 ^{o}\text{C}$		2		V
e _N	Output Noise Voltage	$B = 10Hz$ to 100KHz $T_j = 25 \ ^{\circ}C$		10		μV/V _o
Ro	Output Resistance	f = 1KHz		19		mΩ
lsc	Short Circuit Current	$V_i = 35 V$ $T_{amb} = 25 °C$		0.2		A
Iscp	Short Circuit Peack Current	$T_j = 25 °C$		2.2		A

ELECTRICAL CHARACTERISTICS FOR L7818A ($V_i = 27V$, $I_o = 1$ A, $T_j = 0$ to 125 °C (L7818AC), $T_j = -40$ to 125 °C (L7818AB) unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Vo	Output Voltage	$T_j = 25 °C$	19.6	20	20.4	V
Vo	Output Voltage	$ I_o = 5 \text{ mA to 1 A} \qquad P_o \le 15 \text{ W} \\ V_i = 23 \text{ to 35 V} $	19.2	20	20.8	V
ΔV_0^*	Line Regulation				200 200 100 200	mV mV mV mV
ΔV_{o}^{*}	Load Regulation	$ I_{o} = 5 \text{ mA to 1 A} I_{o} = 5 \text{ mA to 1.5 A} T_{j} = 25 ^{o}\text{C} I_{o} = 250 \text{ to } 750 \text{ mA} $		25 30 10	100 100 50	mV mV mV
Ι _d	Quiescent Current	$T_j = 25 ^{\circ}C$		4.5	6 6	mA
ΔI_d	Quiescent Current Change				0.8 0.8 0.5	mA mA mA
SVR	Supply Voltage Rejection	$V_i = 24 \text{ to } 35 \text{ V}$ f = 120 Hz I _o = 500 mA		56		dB
Vd	Dropout Voltage	$I_o = 1 \text{ A}$ $T_j = 25 ^{o}\text{C}$		2		V
e _N	Output Noise Voltage	B = 10Hz to 100KHz $T_j = 25 ^{\circ}C$		10		μV/V _o
Ro	Output Resistance	f = 1KHz		20		mΩ
l _{sc}	Short Circuit Current	$V_i = 35 V$ $T_{amb} = 25 $ °C		0.2		А
Iscp	Short Circuit Peack Current	$T_j = 25 °C$		2.2		А

ELECTRICAL CHARACTERISTICS FOR L7820A (Vi = 28V, Io = 1 A, Tj = 0 to 125 $^{\circ}$ C (L7820AC), Tj = -40 to 125 $^{\circ}$ C (L7820AB) unless otherwise specified)

 * 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.

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Vo	Output Voltage	$T_j = 25 °C$	23.5	24	24.5	V
Vo	Output Voltage	$ I_o = 5 \text{ mA to 1 A} \qquad P_o \le 15 \text{ W} \\ V_i = 27.3 \text{ to 38 V} $	23	24	25	V
ΔV_0^*	Line Regulation	$ \begin{array}{l} V_i = 27 \ to \ 38 \ V I_o = 500 \ mA \\ V_i = 30 \ to \ 36 \ V \\ V_i = 30 \ to \ 36 \ V T_j = 25 \ ^oC \\ V_i = 26.7 \ to \ 38 \ V T_j = 25 \ ^oC \end{array} $		31 35 14 31	240 240 120 240	mV mV mV mV
ΔV_{o}^{*}	Load Regulation	$ I_{o} = 5 \text{ mA to 1 A} I_{o} = 5 \text{ mA to 1.5 A} T_{j} = 25 ^{\circ}\text{C} I_{o} = 250 \text{ to } 750 \text{ mA} $		25 30 10	100 100 50	mV mV mV
Ι _d	Quiescent Current	$T_j = 25 ^{\circ}C$		4.6	6 6	mA
ΔI_d	Quiescent Current Change				0.8 0.8 0.5	mA mA mA
SVR	Supply Voltage Rejection	$V_i = 28 \text{ to } 38 \text{ V}$ f = 120 Hz I _o = 500 mA		54		dB
Vd	Dropout Voltage	$I_o = 1 A$ $T_j = 25 °C$		2		V
e _N	Output Noise Voltage	$B = 10Hz$ to 100KHz $T_j = 25 \ ^{\circ}C$		10		μV/V _o
Ro	Output Resistance	f = 1KHz		20		mΩ
lsc	Short Circuit Current	$V_i = 35 V$ $T_{amb} = 25 °C$		0.2		A
Iscp	Short Circuit Peack Current	$T_j = 25 °C$		2.2		A

ELECTRICAL CHARACTERISTICS FOR L7824A (Vi = 33V, Io = 1 A, Tj = 0 to 125 $^{\circ}$ C (L7824AC), Tj = -40 to 125 $^{\circ}$ C (L7824AB) unless otherwise specified)

APPLICATIONS INFORMATION

DESIGN CONSIDERATIONS

The L7800A Series of fixed voltage regulators are designed with Thermal Overload Protection that shuts down the circuit when subjected to an excessive power overload condition, Internal Short-circuit Protection that limits the maximum current the circuit will pass, and Output Transistor Safe-Area Compensation that reduces the output short-circuit current as the voltage across the pass transistor is increased.

In many low current applications, compensation capacitors are not required. However, it is recommended that the regulator input be bypassed with a capacitor if the regulator is

Figure 4 : Current Regulator.

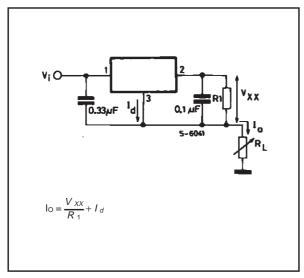
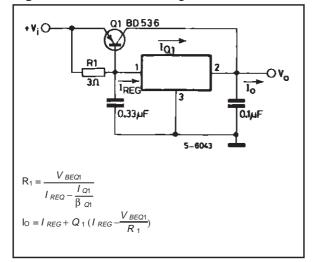
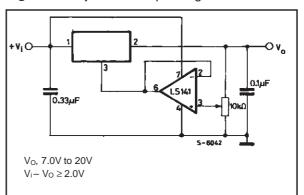


Figure 6 : Current Boost Regulator.



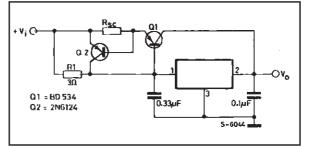
connected to the power supply filter with long wire lengths, or if the output load capacitance is large. An input bypass capacitor should be selected to provide good high-frequency characteristics to insure stable operation under all load conditions. A 0.33μ F or larger tantalum, mylar, or other capacitor having low internal impedance at high frequencies should be chosen. The bypass capacitor should be mounted with the shortest possible leads directly across the regulators input terminals. Normally good construction techniques should be used to minimize ground loops and lead resistance drops since the regulator has no external sense lead.

Figure 5 : Adjustable Output Regulator.



The addition of an operational amplifier allows adjustment to higher or intermediate values while retaining regulation characteristics. The minimum voltage obtainable with this arrangement is 2.0V greater than the regulator voltage.

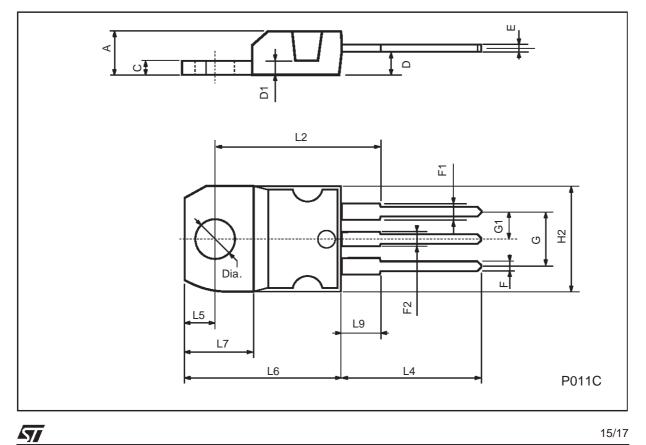
Figure 7 : Short-circuit Protection.



The circuit of figure 6 can be modified to provide supply protection against short circuit by adding a short-circuit sense resistor, R_{sc} , and an additional PNP transistor. The current sensing PNP must be able to handle the short-circuit current of the three-terminal regulator. Therefore, a four-ampere plastic power transistor is specified.

DIM.		mm			inch	
Dilvi.	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
А	4.40		4.60	0.173		0.181
С	1.23		1.32	0.048		0.051
D	2.40		2.72	0.094		0.107
D1		1.27			0.050	
Е	0.49		0.70	0.019		0.027
F	0.61		0.88	0.024		0.034
F1	1.14		1.70	0.044		0.067
F2	1.14		1.70	0.044		0.067
G	4.95		5.15	0.194		0.203
G1	2.4		2.7	0.094		0.106
H2	10.0		10.40	0.393		0.409
L2		16.4			0.645	
L4	13.0		14.0	0.511		0.551
L5	2.65		2.95	0.104		0.116
L6	15.25		15.75	0.600		0.620
L7	6.2		6.6	0.244		0.260
L9	3.5		3.93	0.137		0.154
DIA.	3.75		3.85	0.147		0.151

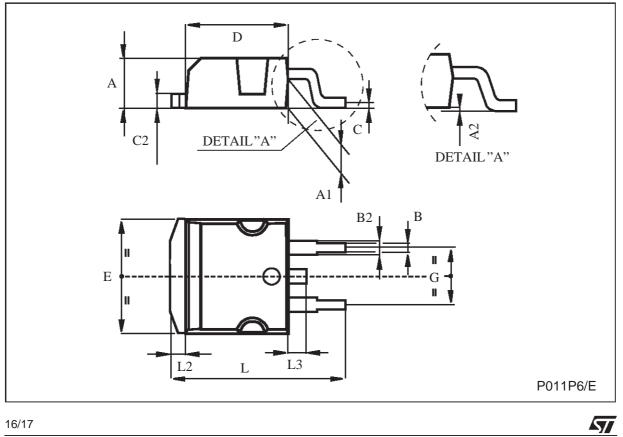




L7800AB/AC

DIM.	mm			inch		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
А	4.4		4.6	0.173		0.181
A1	2.49		2.69	0.098		0.106
В	0.7		0.93	0.027		0.036
B2	1.14		1.7	0.044		0.067
С	0.45		0.6	0.017		0.023
C2	1.21		1.36	0.047		0.053
D	8.95		9.35	0.352		0.368
E	10		10.4	0.393		0.409
G	4.88		5.28	0.192		0.208
L	15		15.85	0.590		0.624
L2	1.27		1.4	0.050		0.055
L3	1.4		1.75	0.055		0.068

TO-263 (D²PAK) MECHANICAL DATA



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