

FEATURES

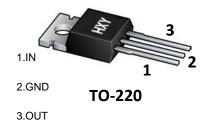
Maximum output current I_{OM}: 1A

Output voltage V_O: 5V

• Continuous total dissipation P_D : 1.5 W $(T_a=25 \, ^{\circ}C)$

Package Marking and Ordering Information

Product ID	Pack	Marking	Units Tube
L7805CV	TO-220		50



ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

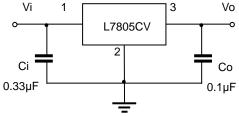
Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Thermal Resistance from Junction to Air	$R_{ heta JA}$	66.7	°C/W
Operating Junction Temperature Range	T _{OPR}	-25~+125	°C
Storage Temperature Range	T _{STG}	-65~+150	°C

 $\textbf{ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE} \ (\forall i=10 \lor, lo=500 \text{mA}, Ci=0.33 \mu\text{F}, \ Co=0.1 \mu\text{F}, \ unless \ otherwise \ specified \)}$

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
			25℃	4.8	5.0	5.2	V
Output voltage	Vo	7V≤V _i ≤20V, Io=5mA-1A	-25-125℃	4.75	5.00	5.25	V
Load Regulation	△Vo	Io=5mA-1A	25℃		9	100	mV
		lo=250mA-750mA	25℃		4	50	mV
Line regulation	△Vo	7V≤V i≤25V	25℃		4	100	mV
		8V≤V _i ≤12V	25℃		1.6	50	mV
Quiescent Current	lq		25℃		5	8	mA
Quiescent Current Change	△lq	7V≤V _i ≤25V	-25-125℃		0.3	1.3	mA
		5mA≤l _O ≤1A	-25-125℃		0.03	0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz 25℃			42		uV
Output voltage drift	△Vo/△T	I _O =5mA	-25-125℃		-1.1		mV/℃
Ripple Rejection	RR	8V≤V _i ≤18V,f=120Hz	-25-125℃	62	73		dB
Dropout Voltage	Vd	Io=1A	25℃		2		μV/Vo
Output resistance	Ro	f=1KH _Z	25℃		10		mΩ
Short Circuit Current	Isc		25℃		230		mA
Peak Current	lpk		25℃		2.2		Α

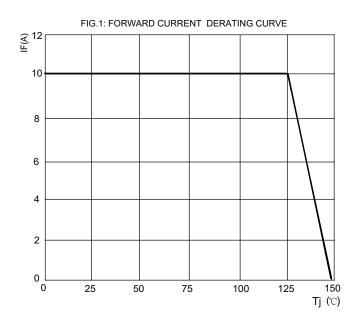
^{*} Pulse test.

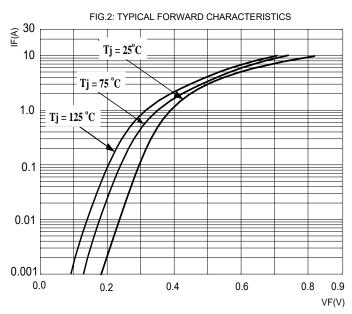
TYPICAL APPLICATION

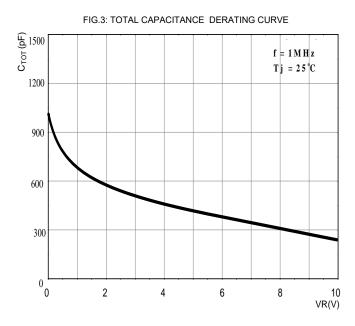


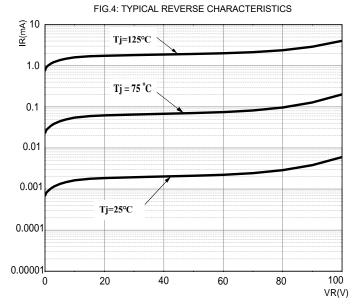
Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

Typical Characteristics



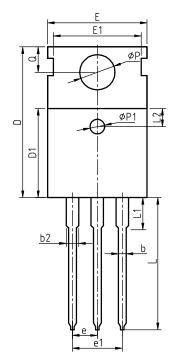


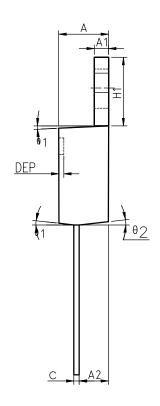




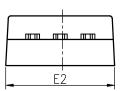


Package Information TO-220





COMMON DIMENSIONS



SYMBOL	MIN	NOM	MAX	MIN	NOM	MAX
Α	4.40	4.57	4.70	0.173	0.180	0.185
A1	1. 27	1.30	1.33	0.050	0.051	0.052
A2	2. 35	2.40	2.50	0.093	0.094	0.098
b	0.77	0.80	0.90	0.030	0.031	0.035
b2	1. 17	1. 27	1.36	0.046	0.050	0.054
С	0.48	0.50	0.56	0.019	0.020	0.022
D	15.40	15.60	15.80	0.606	0.614	0.622
D1	9.00	9. 10	9.20	0.354	0.358	0.362
DEP	0.05	0.10	0.20	0.002	0.004	0.008
E	9.80	10.00	10.20	0.386	0.394	0.402
E1	ı	8.70	ı	-	0.343	-
E2	9.80	10.00	10.20	0.386	0.394	0.402
е		2.54	BSC		0.100	BSC
e1		5.08	BSC		0.200	BSC
H1	6.40	6.50	6.60	0. 252	0.256	0.260
L	12.75	13.50	13.65	0.502	0.531	0.537
L1	-	3.10	3.30	-	0.122	0.130
L2		2.50	REF		0.098	REF
Р	3.50	3.60	3.63	0.138	0.142	0.143
P1	3.50	3.60	3.63	0.138	0.142	0.143
Q	2.73	2.80	2.87	0.107	0.110	0.113
θ 1	5°	7°	9°	5°	7°	9°
θ 2	1°	3°	5°	1°	3°	5°
θ 3	1°	3°	5°	1°	3°	5°



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