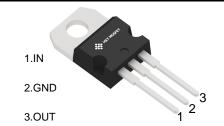
Features

- Maximum output current I_{OM}: 1 A
- Output voltage V_O: 15V
- Continuous total dissipation P_D: 1.5 W (T_a= 25 °C)



Maximum Ratings (Ta=25[°]C unless otherwise noted)

TO-220S

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

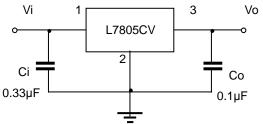
Electrical Characteristics (Ta=25°C unless otherwise specified)

(V_i=-23V, Io=500mA, C_i=0.33 μ F,Co= 1μ F, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MÁX	UNIT	
			25 ℃	14.4	15	15.6	V
Output voltage	Vo	17.5V≤V _i ≤30V, Io=5mA-1A	-25-125 ℃	14.25	15	15.75	V
Load Regulation	ΔVο	Io=5mA-1A	25℃		12	300	mV
		lo=250mA-750mA	25 ℃		4	150	mV
Line regulation	ΔVο	17.5V≤V _i ≤30V	25 ℃		12	300	mV
		20V≤V i≤26V	25 ℃		3	150	mV
Quiescent Current	Iq		25 ℃		4.3	8	mA
Quiescent Current Change	Δlq	17.5V≤V i≤30V	05 105%			1	mA
	Δlq	5mA≤I ₀ ≤1A	-25-125 ℃			0.5	mA
Output voltage drift	△Vo/△T	I _O =5mA	-25-125 ℃		-1		mV/℃
Output Noise Voltage	V _N	10Hz≤f≤100KHz	25 ℃		90		μV/Vo
Ripple Rejection	RR	18.5V≤V _i ≤28.5V,f=120Hz	-25-125 ℃	54	70		dB
Dropout Voltage	Vd	Io=1A	25℃		2		V
Output resistance	Ro	f=1KH _Z	25℃		19		mΩ
Short Circuit Current	Isc		25℃		230		mA
Peak Current	lpk		25℃		2.1		А

^{*} Pulse test.

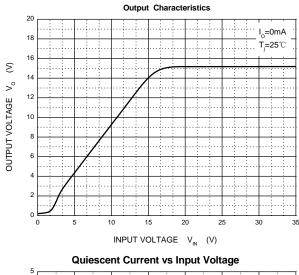
Typical Application

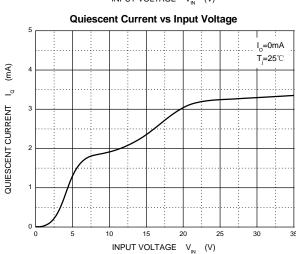


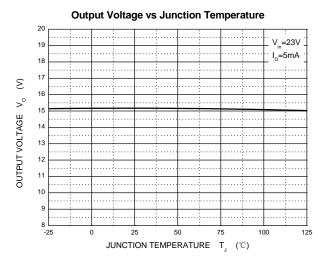
Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

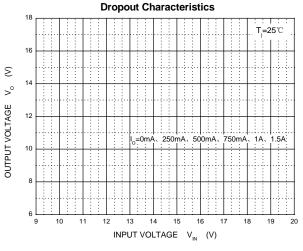


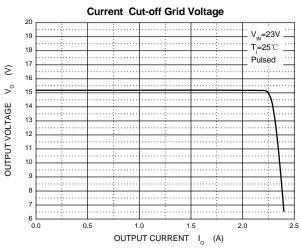
Typical Characteristics

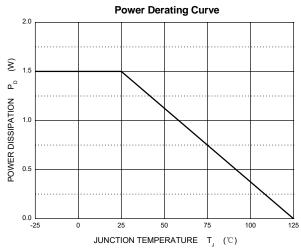




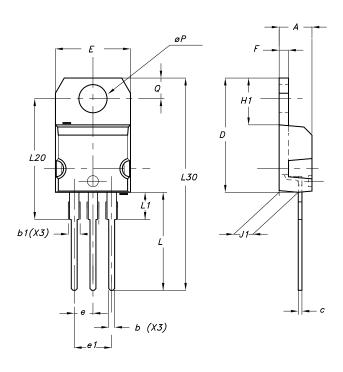








Package Information TO-220S



DIM.	mm.			inch			
	MIN.	TYP	MAX.	MIN.	TYP.	MAX.	
Α	4.40		4.60	0.173		0.181	
b	0.61		0.88	0.024		0.034	
b1	1.15		1.70	0.045		0.066	
С	0.49		0.70	0.019		0.027	
D	15.25		15.75	0.60		0.620	
E	10		10.40	0.393		0.409	
е	2.40		2.70	0.094		0.106	
e1	4.95		5.15	0.194		0.202	
F	1.23		1.32	0.048		0.052	
H1	6.20		6.60	0.244		0.256	
J1	2.40		2.72	0.094		0.107	
L	13		14	0.511		0.551	
L1	3.50		3.93	0.137		0.154	
L20		16.40			0.645		
L30		28.90			1.137		
øΡ	3.75		3.85	0.147		0.151	
Q	2.65		2.95	0.104		0.116	



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