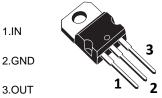


### Features

- Maximum output current I<sub>OM</sub>: 1 A
- Output voltage V<sub>0</sub>: 15V
- Continuous total dissipation  $P_D$ : 1.5 W ( $T_a$ = 25 °C)



**TO-220S** 

### Maxmim Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Input Voltage	Vi	35	V
Thermal Resistance from Junction to Air	R <sub>θJA</sub>	66.7	°C/W
Operating Junction Temperature Range	T <sub>OPR</sub>	-25~+125	°C
Storage Temperature Range	T <sub>STG</sub>	-65~+150	°C

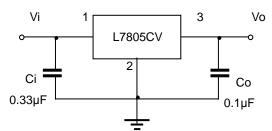
## Electrcal Charcteristics (Ta=25°C unless otherwise specified)

(V<sub>j</sub>=-23V, Io=500mA, C<sub>j</sub>=0.33µF,Co=1µF, unless otherwise specified )

Parameter	Symbol	Test conditions		MIN	ТҮР	MÁX	UNIT
			25 <b>°C</b>	14.4	15	15.6	V
Output voltage	Vo	17.5V≤V <sub>i</sub> ≤30V, Io=5mA-1A	-25-125 <b>℃</b>	14.25	15	15.75	V
Lood Dowlation	lation $\Delta Vo$ Io=5mA-1A Io=250mA-750mA	lo=5mA-1A	25 <b>℃</b>		12	300	mV
Load Regulation		lo=250mA-750mA	25°C		4	150	mV
L'an an aide d'an	A) /-	17.5V≤V <sub>i</sub> ≤30V	25°C		12	300	mV
Line regulation	ΔVo	20V≤V i≤26V	25°C		3	150	mV
Quiescent Current	lq		25°C		4.3	8	mA
Quieseent Current Change	Δlq	17.5V≤V <sub>i</sub> ≤30V	05 105%			1	mA
Quiescent Current Change	Δlq	5mA≤I <sub>0</sub> ≤1A	-25-125 <b>°C</b>			0.5	mA
Output voltage drift	∆Vo/∆T	I <sub>O</sub> =5mA	-25-125 <b>℃</b>		-1		mV/℃
Output Noise Voltage	V <sub>N</sub>	10Hz≤f≤100KHz	25°C		90		μV/Vo
Ripple Rejection	RR	18.5V≤V <sub>i</sub> ≤28.5V,f=120Hz	-25-125 <b>℃</b>	54	70		dB
Dropout Voltage	Vd	lo=1A	25°C		2		V
Output resistance	Ro	f=1KHz	25°C		19		mΩ
Short Circuit Current	lsc		25°C		230		mA
Peak Current	lpk		25°C		2.1		A

\* Pulse test.

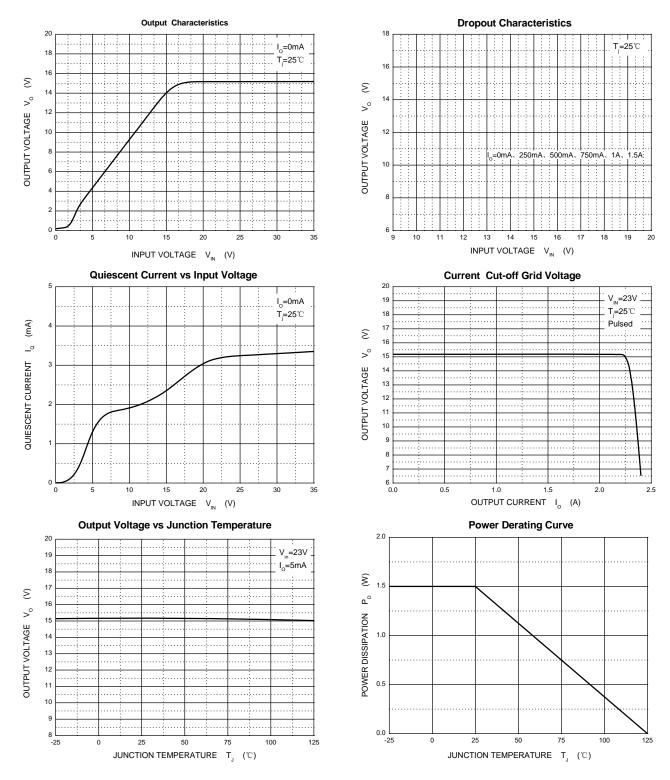
# **Typical Application**



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

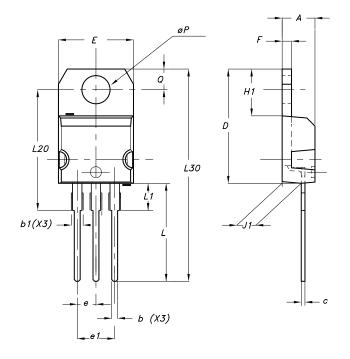


# **Typical Characteristics**





# Package Information TO-220S



DIM		mm.			inch	
DIM.	MIN.	ТҮР	MAX.	MIN.	TYP.	MAX.
А	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	
øР	3.75		3.85	0.147		0.151
Q	2.65		2.95	0.104		0.116



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