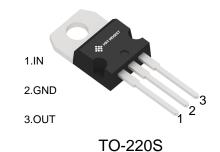


Features

- Maximum output current I_{OM}: 1A
- Output voltage V_O: 5V
- Continuous total dissipation P_D: 1.5 W (T_a= 25°C)

Package Marking and Ordering Information

Product ID	Pack	Marking	Units Tube	
L7805CV-DG	TO-220S	7805	50	



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

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

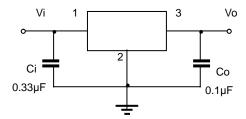
Electrical Characteristics (Ta=25°Cunless otherwise specified)

(V_i=-20V, Io=500mA, C_i=2.2 μ F,Co=1 μ F, unless otherwise specified)

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

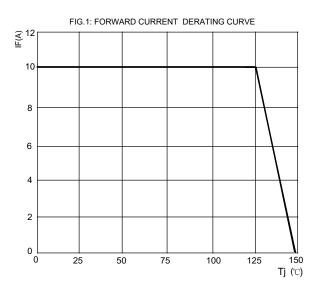
^{*} Pulse test.

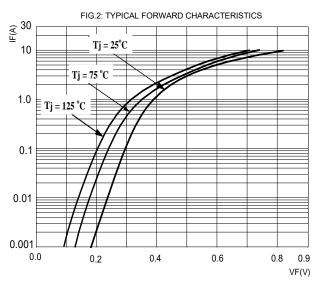
Typical Application

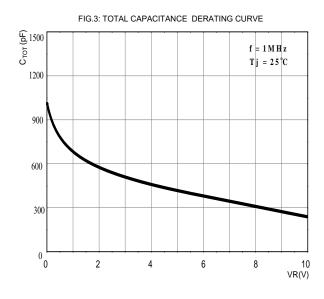


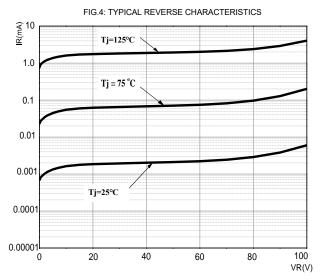
Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

Typical Characteristics



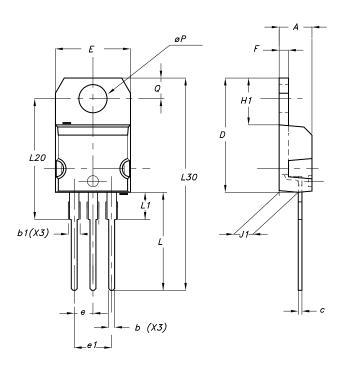








Package Information TO-220S



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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