Features

■ Maximum output current: IoM= -1.5A

■ Output voltage: V_{O=} -5V

• Continuous total dissipation: Pp: 1.5 W (Ta= 25 °C)



Maximum Ratings (Ta=25 ℃ unless otherwise noted)

TO-220S

Parameter	Symbol	Value	Unit
Input Voltage	Vi	-35	V
Thermal Resistance from Junction to Air	$R_{\theta JA}$	83.3	°C/W
Operating Junction Temperature Range	T _{OPR}	-40~+125	℃
Storage Temperature Range	T _{STG}	-65~+150	°C

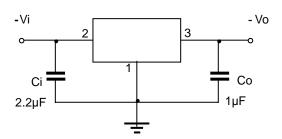
Electrical Characteristics (Ta=25°C unless otherwise specified)

(V_i=-10V, Io=500mA, G=2.2μF,Co=1μF, unless otherwise specified)

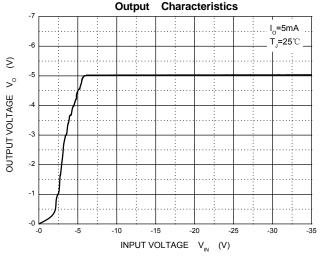
Parameter	Symbol	Symbol Test conditions			Тур	Max	Unit
Output Valtage	\/a		25℃	-4.8	-5	-5.2	V
Output Voltage	Vo	-7V≤V _i ≤-20V, Io=5mA-1A	0-125℃	-4.75	-5	-5.25	V
Load Regulation	ΔVο	Io=5mA-1.5A	25℃		15	100	mV
		lo=250mA-750mA	25℃		5	50	mV
Line Regulation	ΔVο	-7V≤V _i ≤-25V	25℃		12.5	50	mV
		-8V≤V _i ≤-12V	25℃		4	15	mV
Quiescent Current	lq		25℃		1.5	2	mA
0	Δlq	-7V≤V _i ≤-25V	0-125℃			0.5	mA
Quiescent Current Change	Δlq	5mA≤l _O ≤1A	0-125℃			0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25°C		125		μV/Vo
Output Voltage Drift	ΔVo/ΔΤ	I _O =5mA	0-125℃		-0.4		mV/℃
Ripple Rejection	RR	-8V≤V _i ≤-18V,f=120Hz	0-125℃	54	60		dB
Dropout Voltage	Vd	lo=1A	25℃		1.1		V
Peak Current	lpk		25℃		2.1		Α

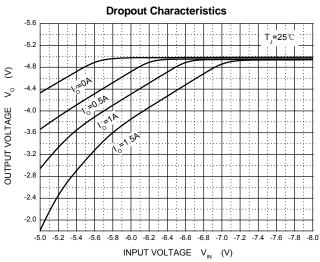
^{*} Pulse test.

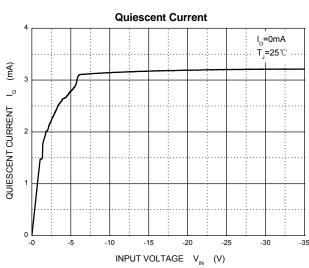
Typical Application

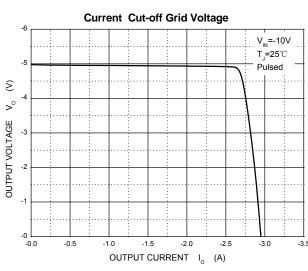


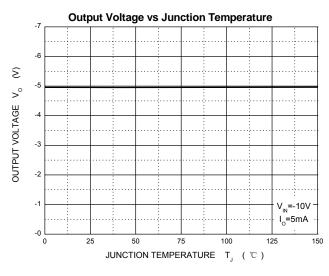
Typical Characteristics

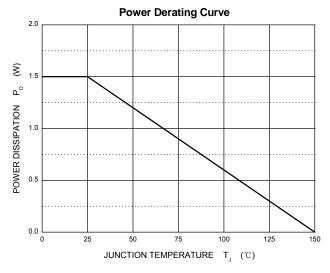




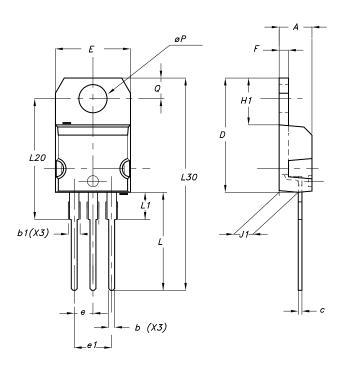








Package Information TO-220S



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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