

#### **Features**

■ Maximum output current: IoM= -1.5A

● Output voltage: V<sub>O=</sub> -15V

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



## Maximum Ratings (Ta=25<sup>°</sup>C unless otherwise noted)

TO-220S

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

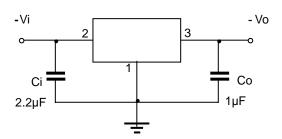
### Electrical Characteristics (Ta=25°C unless otherwise specified)

(V<sub>i</sub>=-23V, Io=500mA, C<sub>i</sub>=2.2 $\mu$ F,Co=1 $\mu$ F, unless otherwise specified )

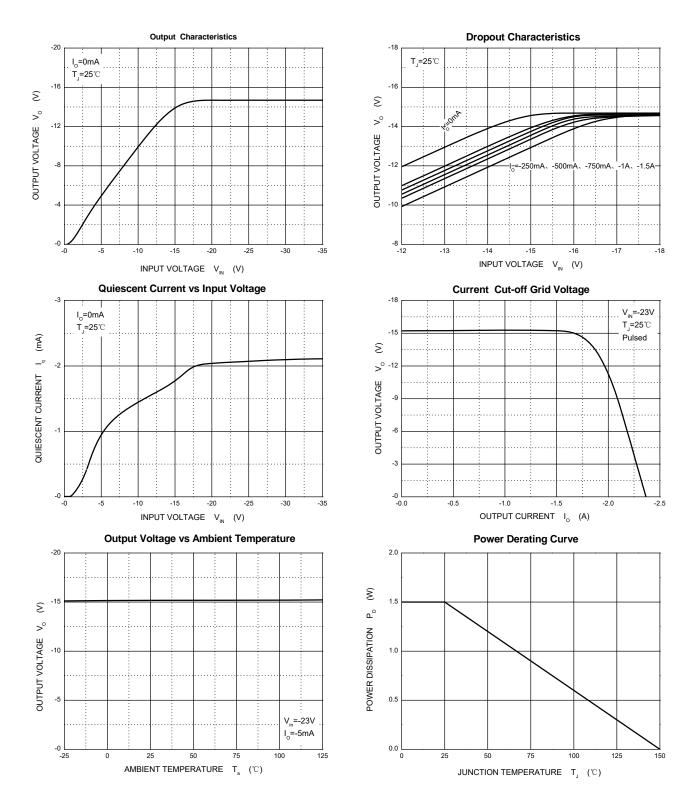
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit	
Outrout Valtages	\/-		25℃	-14.4	-15	-15.6	V
Output Voltage	Vo	-17.5V≤V <sub>i</sub> ≤-30V, lo=5mA-1A	0-125℃	-14.25	-15	-15.75	V
Load Regulation	ΔVο	Io=5mA-1.5A	25℃		15	200	mV
		Io=250mA-750mA	25℃		5	75	mV
Line Regulation	ΔVο	-17.5V≤V <sub>i</sub> ≤-30V	25℃		5	100	mV
		-20V≤V <sub>i</sub> ≤-26V	25℃		3	50	mV
Quiescent Current	Iq		25℃		2	3	mA
Quiescent Current Change	Δlq	-17.5V≤V <sub>i</sub> ≤-30V	0-125℃			0.5	mA
Quiescent Current Change	Δlq	5mA≤l <sub>O</sub> ≤1A	0-125℃			0.5	mA
Output Noise Voltage	$V_N$	10Hz≤f≤100KHz	25℃		375		μV/Vo
Output Voltage Drift	ΔVο/ΔΤ	I <sub>O</sub> =5mA	0-125℃		-1		mV/℃
Ripple Rejection	RR	-18.5V≤V <sub>i</sub> ≤-28.5V,f=120Hz	0-125℃	54	60		dB
Dropout Voltage	Vd	Io=1A	25℃		1.1		V
Peak Current	lpk		25°C		2.1		Α

<sup>\*</sup> Pulse test.

### **Typical Application**

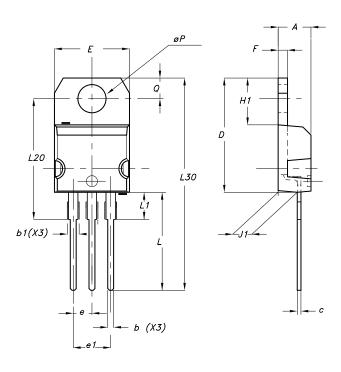


## **Typical Characteristics**





# 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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