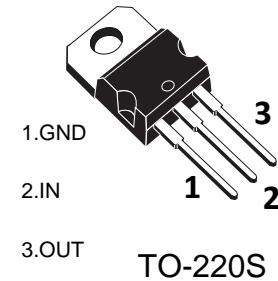




Features

- Maximum output current: $I_{OM} = -1.5A$
- Output voltage: $V_{O} = -5V$
- Continuous total dissipation: $P_D: 1.5 W (T_a = 25 ^\circ C)$



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

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

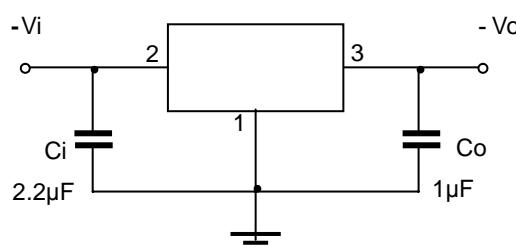
Electrcal Charcteristics (Ta=25°C unless otherwise specified)

($V_i = -10V$, $I_o = 500mA$, $C_i = 2.2\mu F$, $C_o = 1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output Voltage	V_o		25°C	-4.8	-5	-5.2	V
		-7V≤ V_i ≤-20V, $I_o = 5mA-1A$	0-125°C	-4.75	-5	-5.25	V
Load Regulation	ΔV_o	$I_o = 5mA-1.5A$	25°C		15	100	mV
		$I_o = 250mA-750mA$	25°C		5	50	mV
Line Regulation	ΔV_o	-7V≤ V_i ≤-25V	25°C		12.5	50	mV
		-8V≤ V_i ≤-12V	25°C		4	15	mV
Quiescent Current	I_q		25°C		1.5	2	mA
Quiescent Current Change	ΔI_q	-7V≤ V_i ≤-25V	0-125°C		0.5	mA	
	ΔI_q	5mA≤ I_o ≤1A	0-125°C		0.5	mA	
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25°C		125		μV/V _O
Output Voltage Drift	$\Delta V_o / \Delta T$	$I_o = 5mA$	0-125°C		-0.4		mV/°C
Ripple Rejection	RR	-8V≤ V_i ≤-18V, f=120Hz	0-125°C	54	60		dB
Dropout Voltage	V_d	$I_o = 1A$	25°C		1.1		V
Peak Current	I_{pk}		25°C		2.1		A

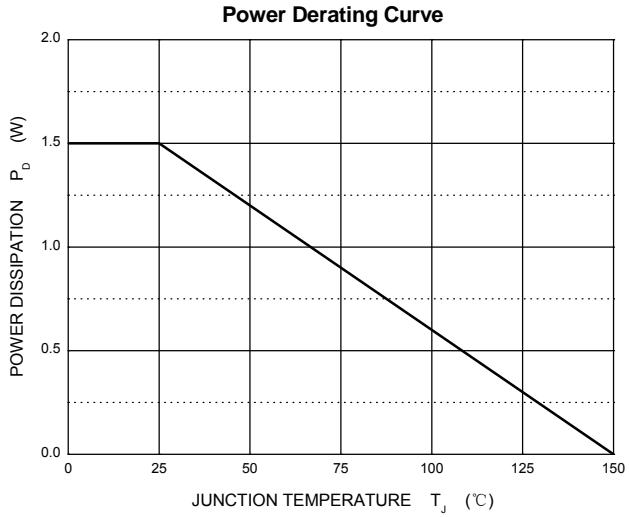
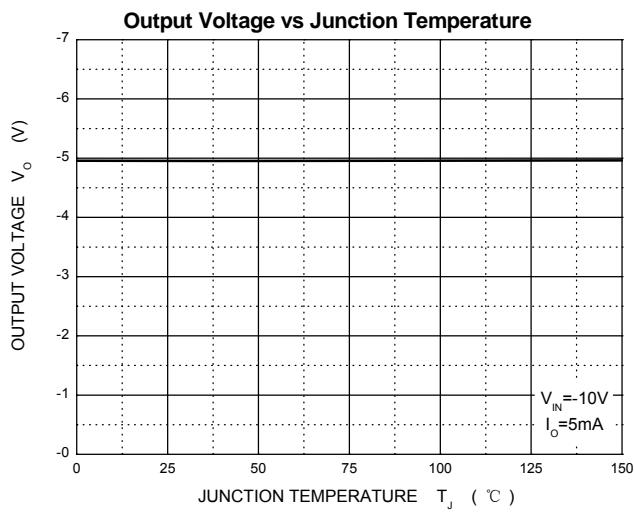
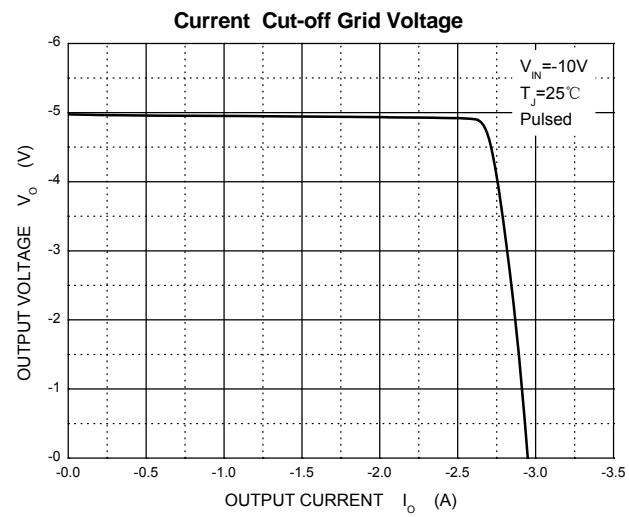
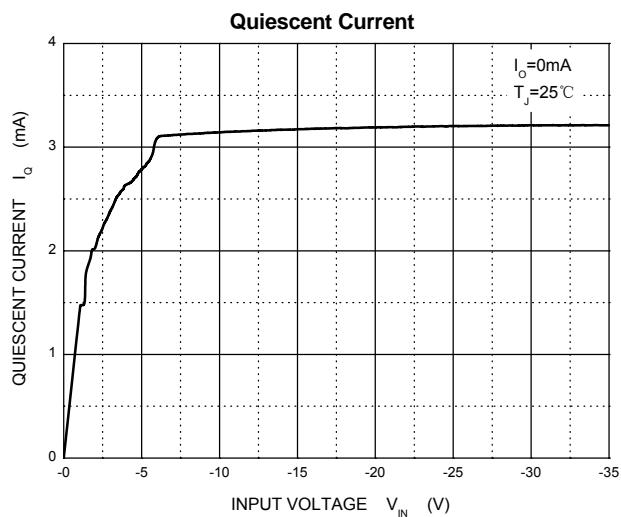
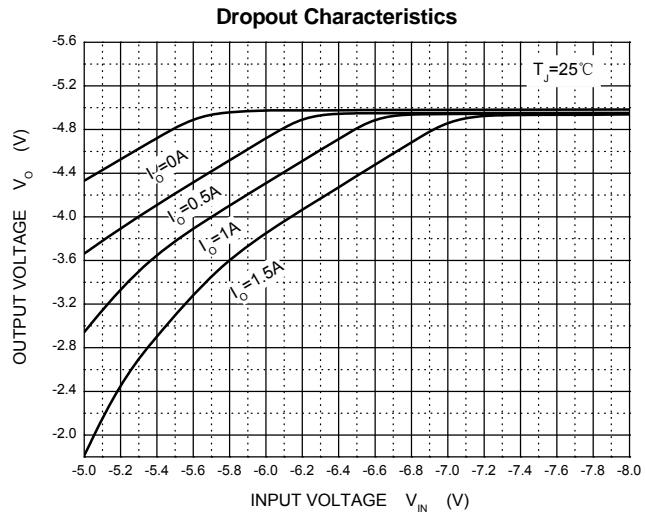
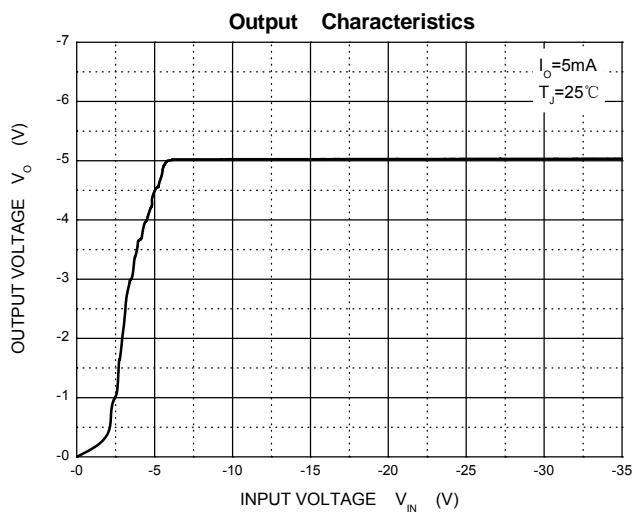
* Pulse test.

Typical Application



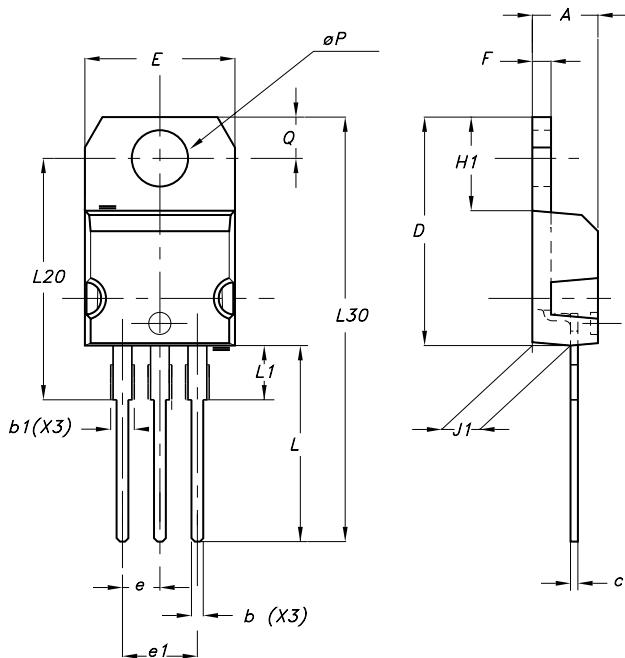


Typical Characteristics





Package Information TO-220S



DIM.	mm.			inch		
	MIN.	Typ	MAX.	MIN.	Typ.	MAX.
A	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
c	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
e	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	
øP	3.75		3.85	0.147		0.151
Q	2.65		2.95	0.104		0.116



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