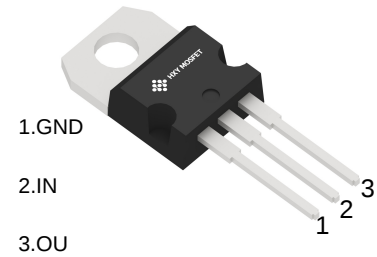




Features

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



TO-220S

Maximum Ratings ($T_a = 25^\circ C$ unless otherwise noted)

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

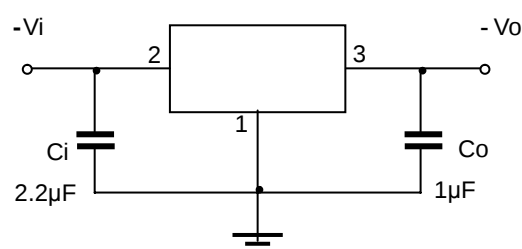
Electrical Characteristics ($T_a = 25^\circ C$ unless otherwise specified)

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

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output Voltage	Vo		25°C	-4.8	-5	-5.2	V
		-7V≤Vi≤-20V, Io=5mA-1A	0-125°C	-4.75	-5	-5.25	V
Load Regulation	ΔVo	Io=5mA-1.5A	25°C		15	100	mV
		Io=250mA-750mA	25°C		5	50	mV
Line Regulation	ΔVo	-7V≤Vi≤-25V	25°C		12.5	50	mV
		-8V≤Vi≤-12V	25°C		4	15	mV
Quiescent Current	Iq		25°C		1.5	2	mA
Quiescent Current Change	ΔIq	-7V≤Vi≤-25V	0-125°C			0.5	mA
	ΔIq	5mA≤Io≤1A	0-125°C			0.5	mA
Output Noise Voltage	VN	10Hz≤f≤100KHz	25°C		125		μV/Vo
Output Voltage Drift	ΔVo / ΔT	Io=5mA	0-125°C		-0.4		mV/°C
Ripple Rejection	RR	-8V≤Vi≤-18V,f=120Hz	0-125°C	54	60		dB
Dropout Voltage	Vd	Io=1A	25°C		1.1		V
Peak Current	Ipk		25°C		2.1		A

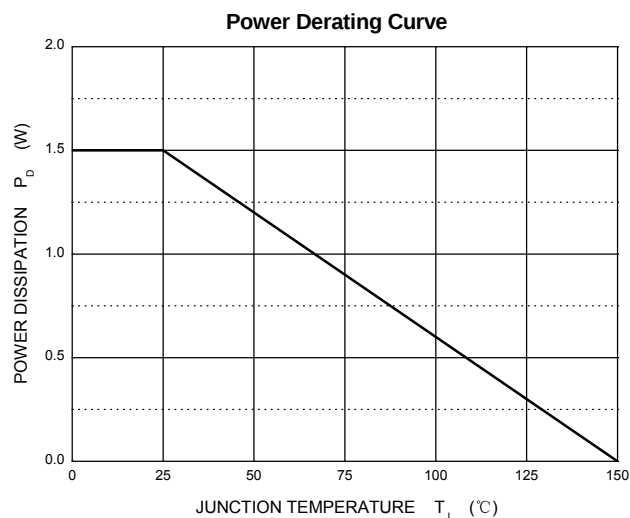
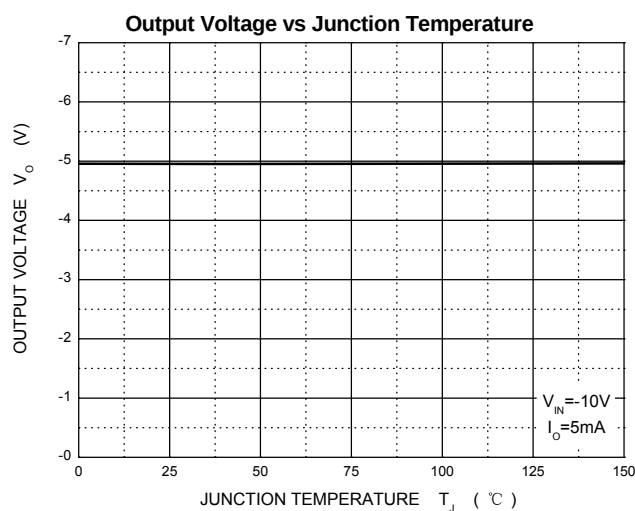
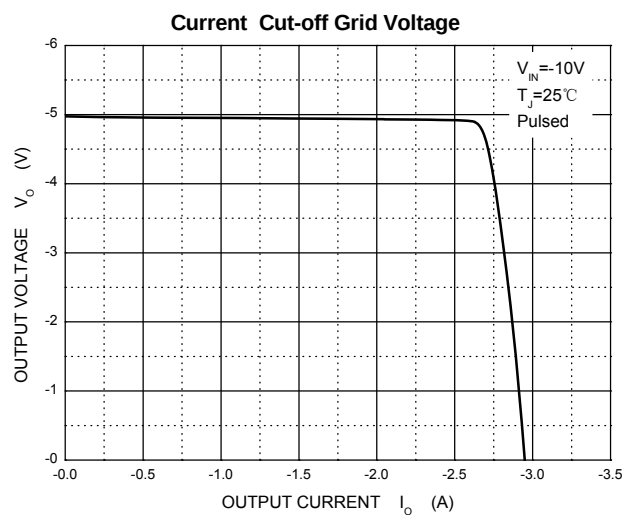
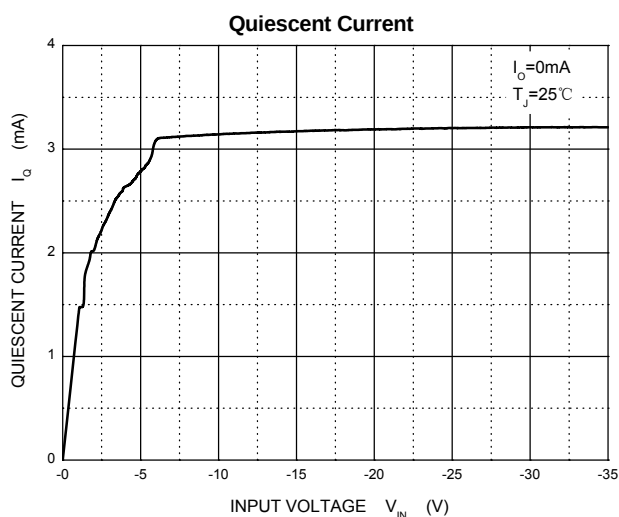
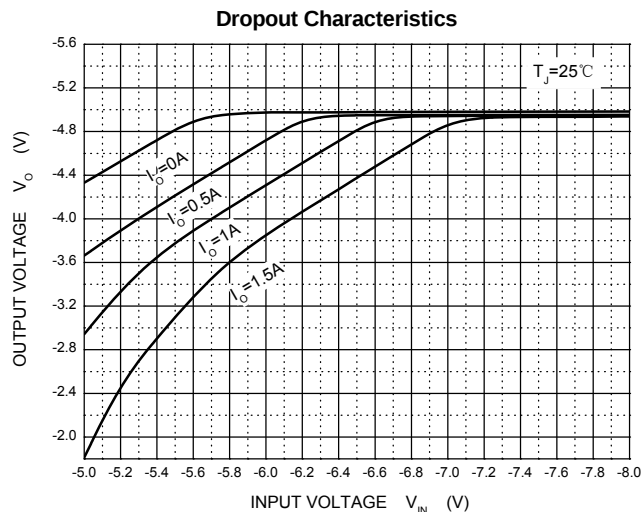
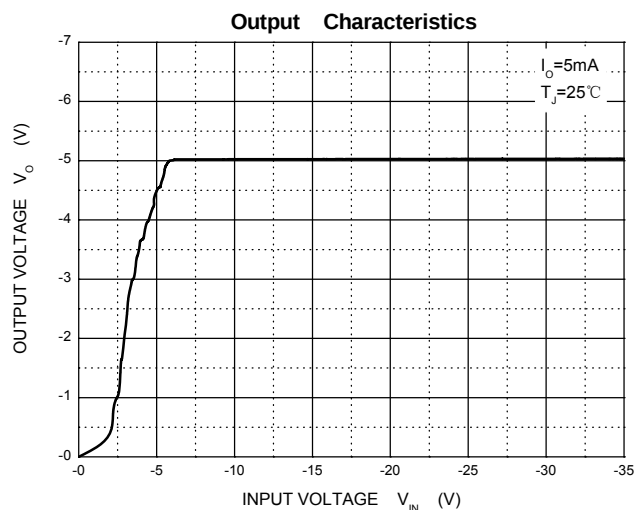
* Pulse test.

Typical Application



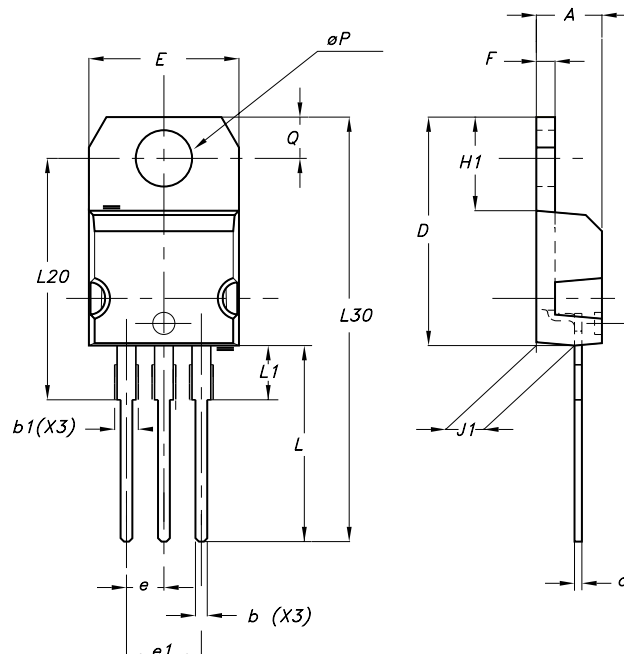


Typical Characteristics





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	
ϕP	3.75		3.85	0.147		0.151
Q	2.65		2.95	0.104		0.116



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