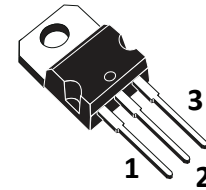




Features

- Maximum output current I_{OM} : 1 A
- Output voltage V_O : 6V
- Continuous total dissipation P_D : 1.5 W ($T_a = 25^\circ\text{C}$)

1.IN
2.GND
3.OUT



TO-220S

Maxmim Ratings ($T_a = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Thermal Resistance from Junction to Air	$R_{\theta JA}$	66.7	$^\circ\text{C/W}$
Operating Junction Temperature Range	T_{OPR}	-25~+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65~+150	$^\circ\text{C}$

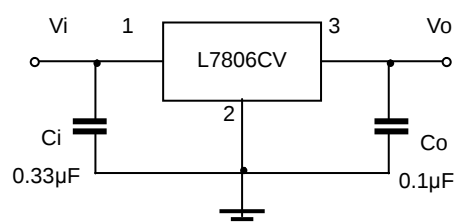
Electrcal Charcteristics ($T_a = 25^\circ\text{C}$ unless otherwise specified)

($V_i = -11\text{V}$, $I_o = 500\text{mA}$, $C_i = 2.2\mu\text{F}$, $C_o = 1\mu\text{F}$, unless otherwise specified)

Parameter	Symbol	Test conditions		MIN	TYP	MAX	UNIT
Output voltage	Vo		25°C	5.75	6	6.25	V
		8V≤Vi≤21V, Io=5mA-1A	-25-125°C	5.7	6	6.3	V
Load Regulation	△Vo	Io=5mA-1A	25°C		14	120	mV
		Io=250mA-750mA	25°C		4	60	mV
Line regulation	△Vo	8V≤Vi≤25V	25°C		5	120	mV
		9V≤Vi≤13V	25°C		1.5	60	mV
Quiescent Current	Iq		25°C		4.3	8	mA
Quiescent Current Change	△Iq	8V≤Vi≤25V	-25-125°C			1.3	mA
		5mA≤Io≤1A	-25-125°C			0.5	mA
Output voltage drift	△Vo/△T	Io=5mA	0-125°C		-0.8		mV/°C
Output Noise Voltage	VN	10Hz≤f≤100KHz	25°C		45		µV/Vo
Ripple Rejection	RR	9V≤Vi≤19V,f=120Hz	-25-125°C	59	75		dB
Dropout Voltage	Vd	Io=1A	25°C		2		V
Output resistance	RO	f=1KHz	25°C		10		mΩ
Short Circuit Current	Isc		25°C		550		mA
Peak Current	Ipk		25°C		2.2		A

* Pulse test.

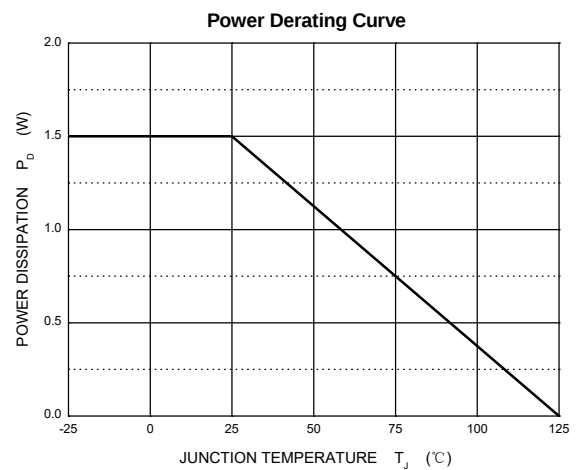
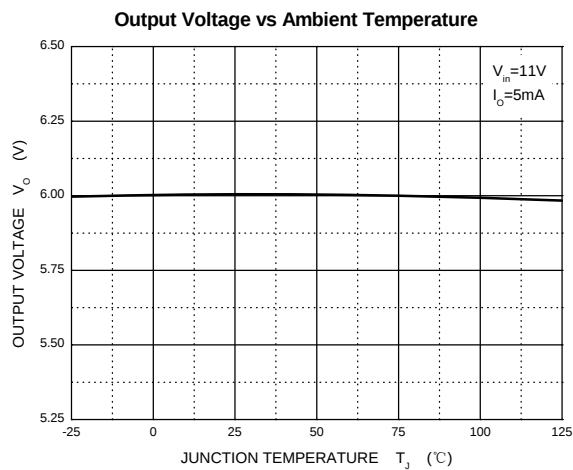
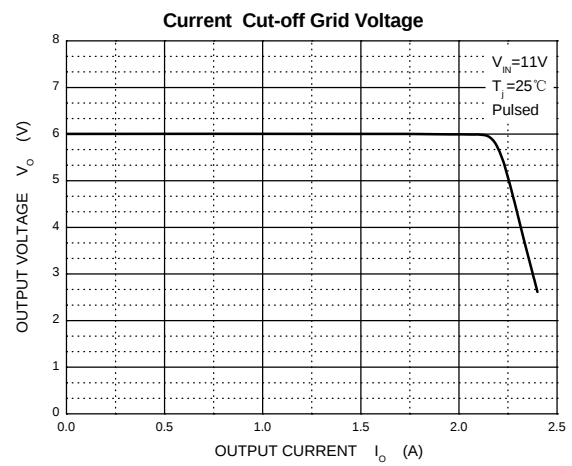
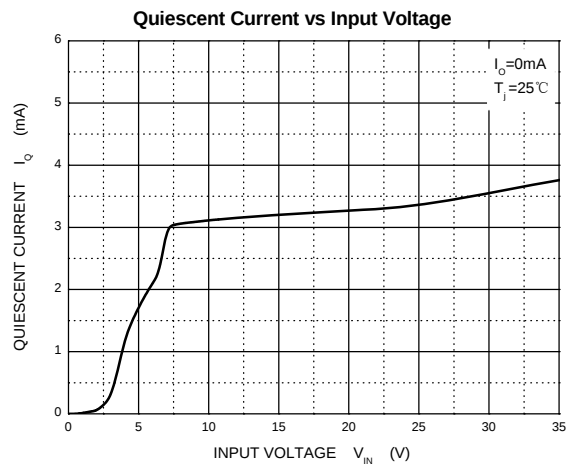
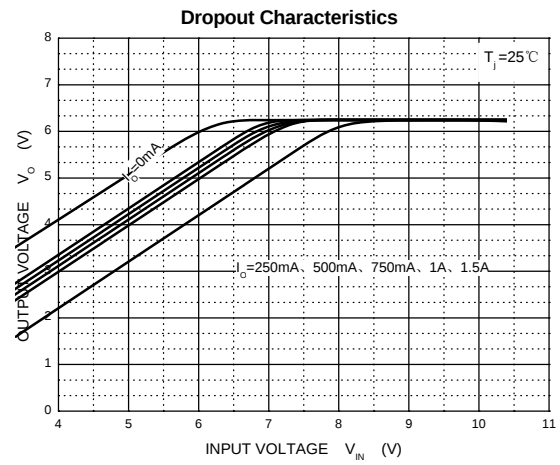
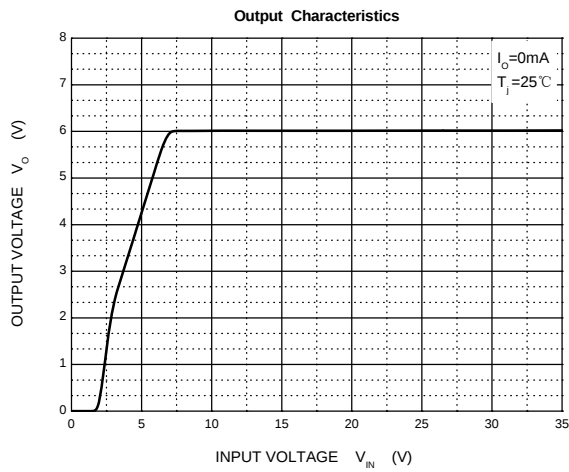
Typical Application



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

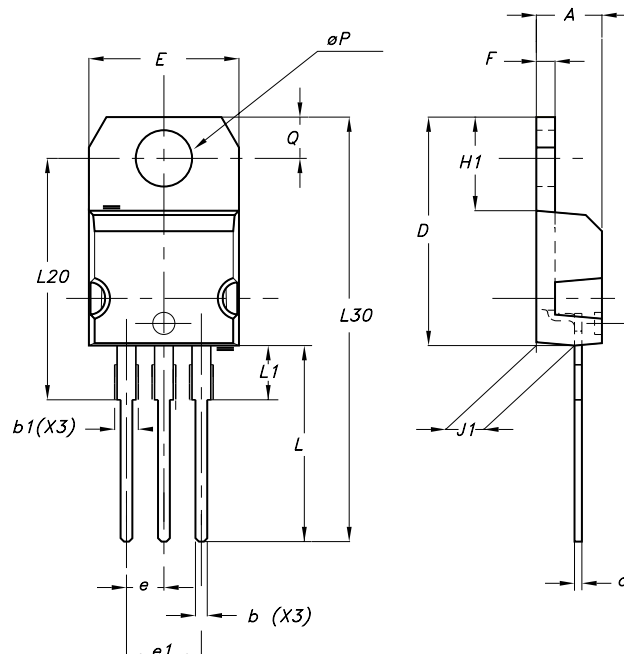


Typical Characteristics





Package Information TO-220S



DIM.	mm.			inch		
	MIN.	TYP	MAX.	MIN.	TYP.	MAX.
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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