



TO-220-3L Plastic-Encapsulate Voltage Regulators

CJ7805 Three-terminal positive voltage regulator

FEATURES

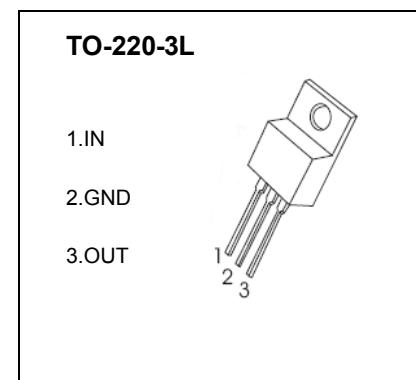
Maximum Output current I_{OM} : 1.5 A

Output voltage V_o : 5V

Continuous total dissipation

P_D : 1.5 W ($T_a = 25^\circ C$)

15 W($T_c = 25^\circ C$)



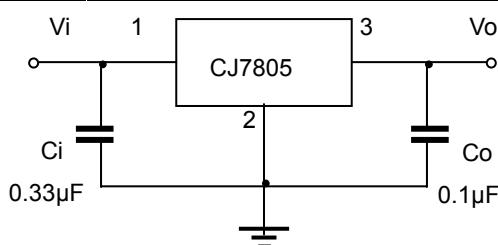
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	66.7	°C/W
Thermal Resistance from Junction to Case	$R_{\theta JC}$	6.67	°C/W
Operating Junction Temperature Range	T_{OPR}	-25~+125	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

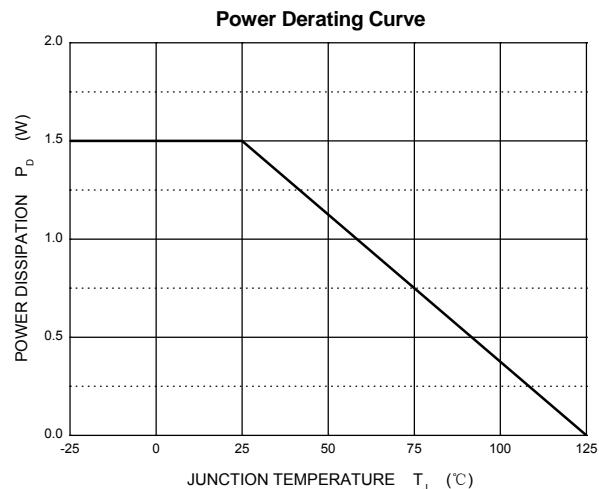
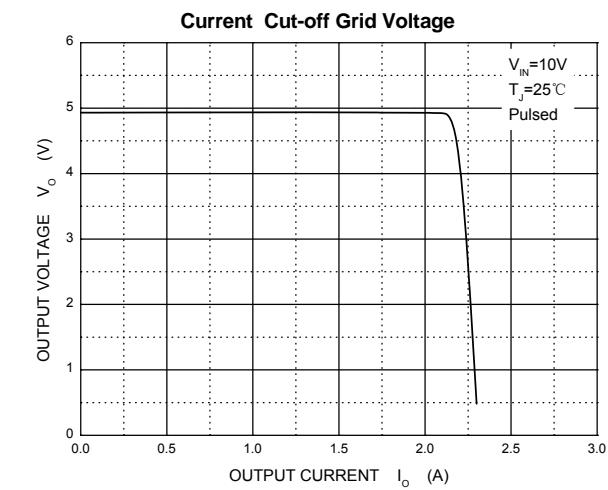
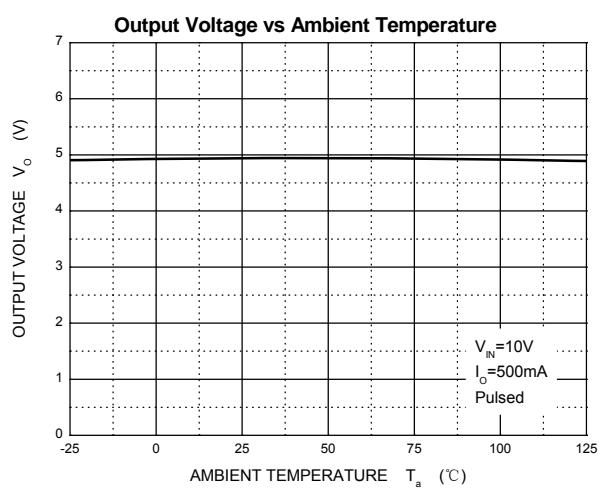
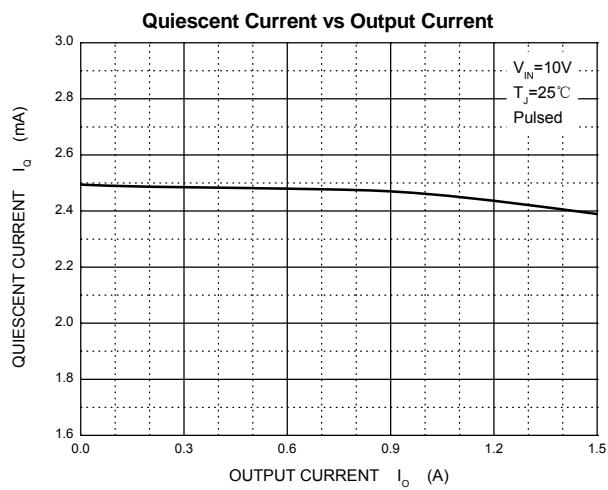
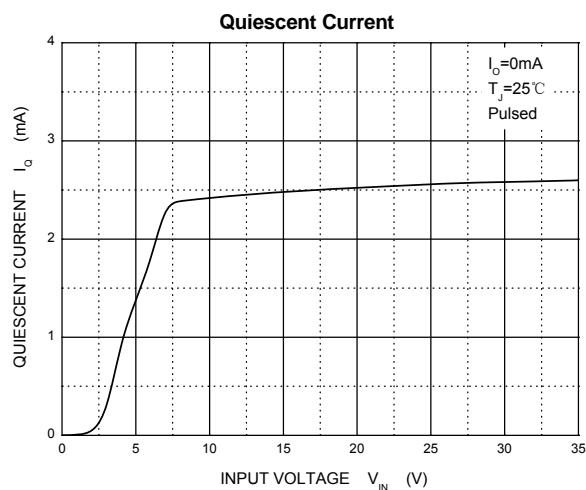
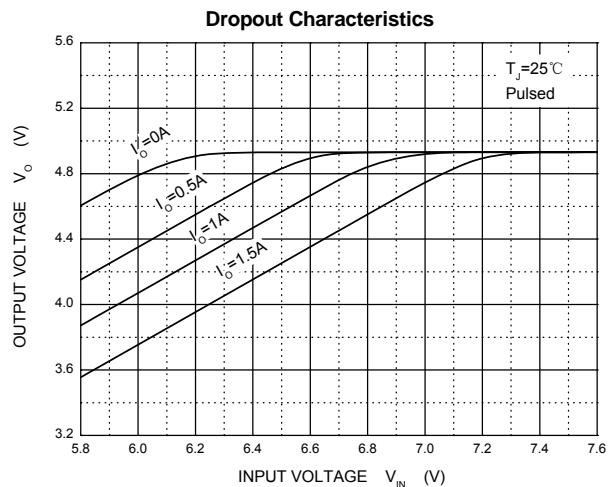
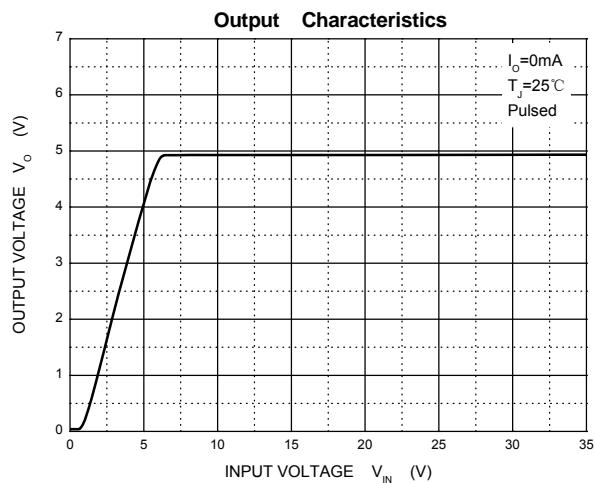
ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=10V, I_o=500mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output voltage	V_o	25°C	4.8	5.0	5.2	V	
		7V≤ V_i ≤20V, $I_o=5mA-1A$, $P\leq 15W$	0-125°C	4.75	5.00	5.25	V
Load Regulation	ΔV_o	$I_o=5mA-1.5A$	25°C	9	100	mV	
		$I_o=250mA-750mA$	25°C	4	50	mV	
Line regulation	ΔV_o	7V≤ V_i ≤25V	25°C	4	100	mV	
		8V≤ V_i ≤12V	25°C	1.6	50	mV	
Quiescent Current	I_q	25°C		5	8	mA	
Quiescent Current Change	ΔI_q	7V≤ V_i ≤25V	0-125°C	0.3	1.3	mA	
		5mA≤ I_o ≤1A	0-125°C	0.03	0.5	mA	
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25°C	42		uV	
Output voltage drift	$\Delta V_o/\Delta T$	$I_o=5mA$	0-125°C		-1.1		mV/°C
Ripple Rejection	RR	8V≤ V_i ≤18V, f=120Hz	0-125°C	62	73		dB
Dropout Voltage	V_d	$I_o=1A$	25°C		2		V
Output resistance	R_o	f=1KHz	25°C		10		mΩ
Short Circuit Current	I_{sc}		25°C		230		mA
Peak Current	I_{pk}		25°C		2.2		A

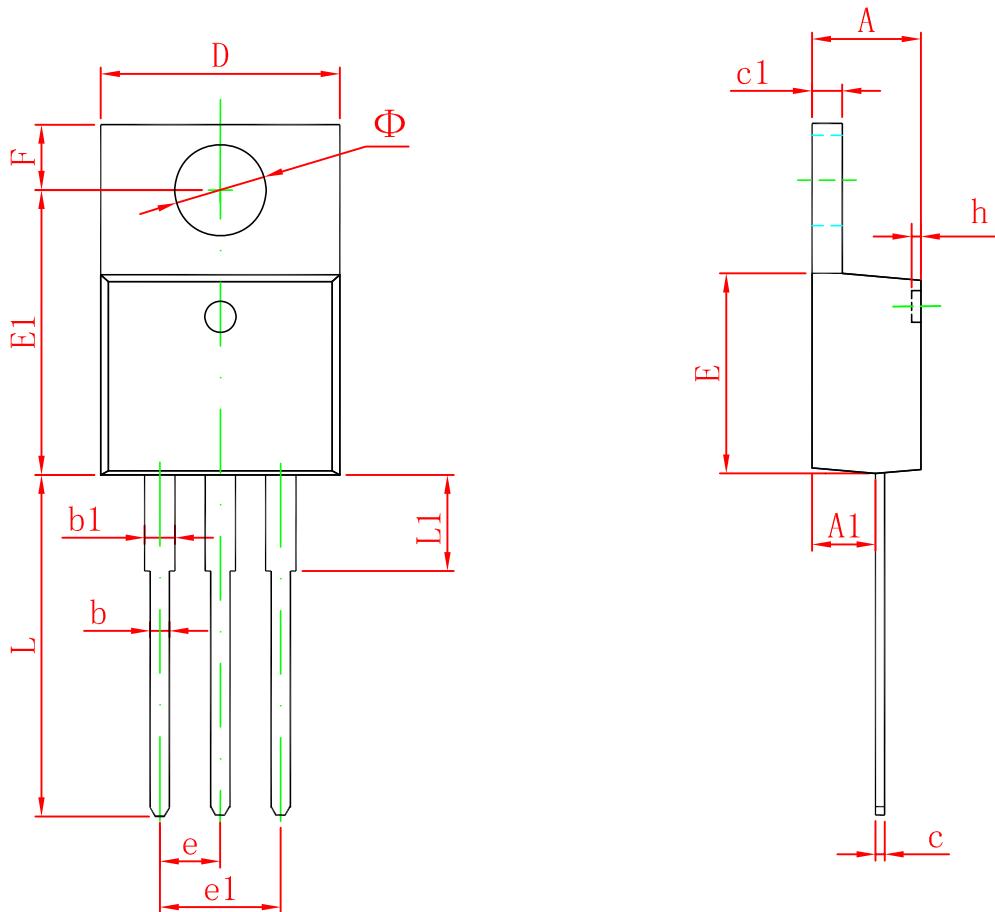
TYPICAL APPLICATION



Typical Characteristics



TO-220-3L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	4.470	4.670	0.176	0.184
A1	2.520	2.820	0.099	0.111
b	0.710	0.910	0.028	0.036
b1	1.170	1.370	0.046	0.054
c	0.310	0.530	0.012	0.021
c1	1.170	1.370	0.046	0.054
D	10.010	10.310	0.394	0.406
E	8.500	8.900	0.335	0.350
E1	12.060	12.460	0.475	0.491
e	2.540 TYP		0.100 TYP	
e1	4.980	5.180	0.196	0.204
F	2.590	2.890	0.102	0.114
h	0.000	0.300	0.000	0.012
L	13.400	13.800	0.528	0.543
L1	3.560	3.960	0.140	0.156
Φ	3.735	3.935	0.147	0.155

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Linear Voltage Regulators](#) category:

Click to view products by [Changjiang manufacturer](#):

Other Similar products are found below :

[LV56831P-E](#) [LV5684PVD-XH](#) [MCDTSA6-2R](#) [L7815ACV-DG](#) [PQ3DZ53U](#) [LV56801P-E](#) [TLE42794G](#) [L78L05CZ/1SX](#) [L78LR05DL-MA-E](#) [636416C](#) [714954EB](#) [BA033LBSG2-TR](#) [LV5680P-E](#) [L78M15CV-DG](#) [TLS202B1MBV33HTSA1](#) [L79M05T-E](#) [TLS202A1MBVHTSA1](#) [L78LR05D-MA-E](#) [NCV317MBTG](#) [NTE7227](#) [LV5680NPVC-XH](#) [LT1054CN8](#) [MP2018GZD-5-Z](#) [MP2018GZD-33-Z](#) [MIC5281-3.3YMM](#) [RT9078-28GQZ](#) [MC78L06BP-AP](#) [TA48LS05F\(TE85L,F\)](#) [TC47BR5003ECT](#) [TCR2LN12,LF\(S](#) [TCR2LN28,LF\(S](#) [TCR2LN30,LF\(S](#) [TCR3DF295,LM\(CT](#) [TCR3DF40,LM\(CT](#) [BA178M20CP-E2](#) [L78M05TL-TL-E](#) [L78M12ABDT](#) [LR645N3-G-P003](#) [LR645N3-G-P013](#) [ZXTR2005P5-13](#) [SCD7812BTG](#) [TCR3DF335,LM\(CT](#) [TLE42994E V33](#) [ZXTR2008K-13](#) [ZXTR2005K-13](#) [L88R05DL-E](#) [ADP3300ARTZ-2.7RL7](#) [LM120K-15/883](#) [IFX54441LDVXUMA1](#) [LM317D2T-TR](#)