



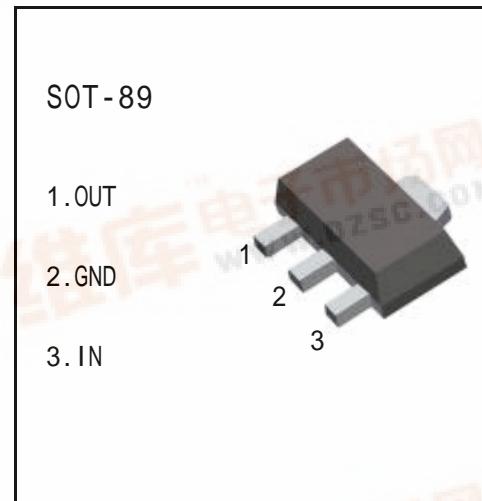
JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-89 Encapsulate Three Terminal Voltage Regulator**CJ78L06** Three-terminal positive voltage regulator**FEATURES**

Maximum Output current

 I_{OM} : 0.1 A

Output voltage

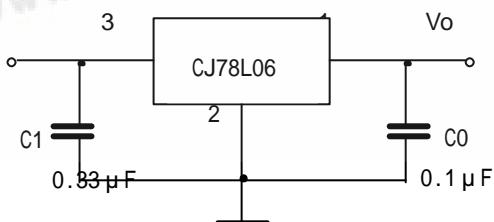
 V_o : 6 V

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

Parameter	Symbol	Value	Units
Input Voltage	V_i	30	V
Operating Junction Temperature Range	T_{OPR}	0—+125	
Storage Temperature Range	T_{STG}	-55—+150	

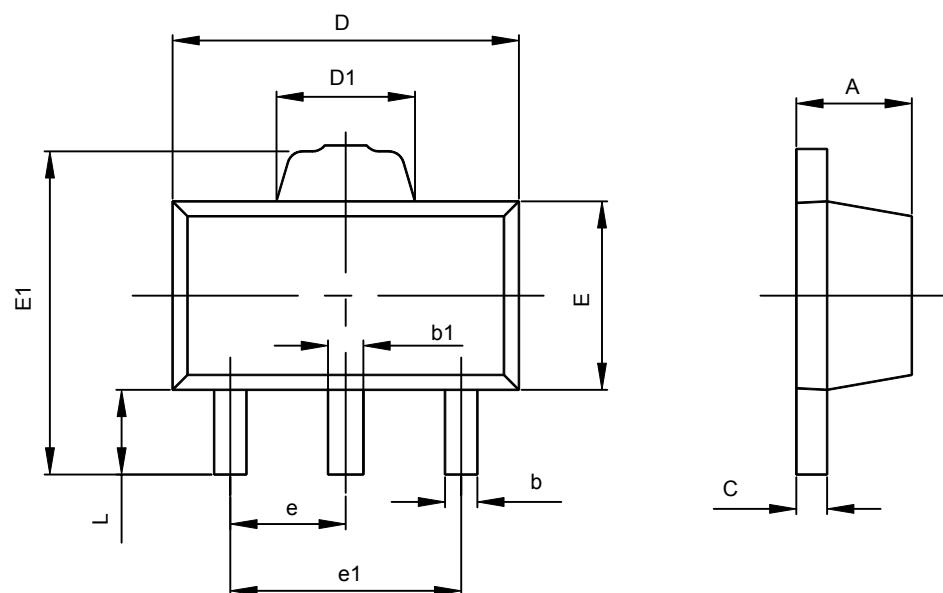
ELECTRICAL CHARACTERISTICS($V_i=12V, I_o=40mA, 0 < T_j < 125^\circ C, C_1=0.33\mu F, C_0=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	$T_j=25^\circ C$	5.75	6.0	6.25	V
		8V V_i 20V, $I_o=1mA-40mA$	5.7	6.0	6.3	V
		8.5V V_i V_{MAX} , $I_o=1mA-70mA$	5.7	6.0	6.3	V (note)
Load Regulation	V_o	$T_j=25^\circ C$, $I_o=1mA-100mA$		16	80	mV
		$T_j=25^\circ C$, $I_o=1mA-70mA$		9	40	mV
Line regulation	V_o	8V V_i 20V, $T_j=25^\circ C$		35	175	mV
		9V V_i 20V, $T_j=25^\circ C$		29	125	mV
Quiescent Current	I_q	25		3.9	6.0	mA
Quiescent Current Change	I_q	9V V_i 20V			1.5	mA
	I_q	1mA I_o 40mA			0.1	mA
Output Noise Voltage	V_n	10Hz f 100KHz		46		uV
Ripple Rejection	RR	9V V_i 19V, $f=120Hz, T_j=25^\circ C$	40	48		dB
Dropout Voltage	V_d	$T_j=25^\circ C$		1.7		V

TYPICAL APPLICATION

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

SOT-89-3L PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.360	0.560	0.014	0.022
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.400	1.800	0.055	0.071
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500TYP		0.060TYP	
e1	2.900	3.100	0.114	0.122
L	0.900	1.100	0.035	0.043