



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-23-3L 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

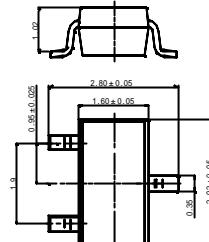
Operating and storage junction temperature range

T_J, T_{STG}: -55 to +150**ABSOLUTE MAXIMUM RATINGS** (Operating temperature range applies unless otherwise specified)**SOT-23-3L**

1. OUT

2. IN

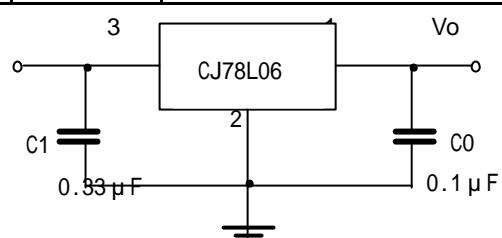
3. GND



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 ,C₁=0.33 μF,C₀=0.1 μF, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V _O	T _J =25	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, I _O =1mA-100mA		16	80	mV
		T _J =25, I _O =1mA-70mA		9	40	mV
Line regulation	V _O	8V V _I 20V, T _J =25		35	175	mV
		9V V _I 20V, T _J =25		29	125	mV
Quiescent Current	I _Q			3.9	6.0	mA
Quiescent Current Change	I _Q	9V V _I 20V			1.5	mA
	I _Q	1mA V _I 40mA			0.1	mA
Output Noise Voltage	V _N	10Hz f 100KHz		46		uV
Ripple Rejection	RR	8V V _I 19V, f=120HZ, T _J =25	40	48		dB
Dropout Voltage	V _d	T _J =25		1.7		V

TYPICAL APPLICATION

Note 1:Bypass capacitors are recommended for optimum stability and transient response and should be located as close possible to the regulators.