JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD



SOT-23-3L Encapsulate Three Terminal Voltage Regulator

CJ78L05 Three-terminal positive voltage regulator

FEATURES

Maximum Output current

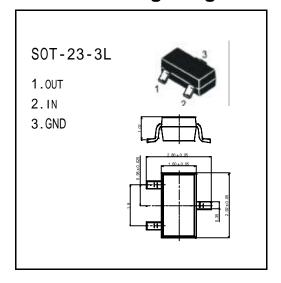
I_{OM:} 0.1 A

Output voltage

V₀: 5 \

Operating and storage junction temperature range

$$T_J$$
, T_{stg} : -55 to +150

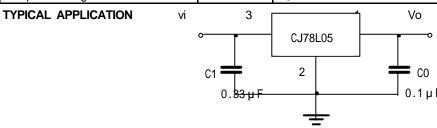


ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unlts
Input Voltage	V ı	30	V
Operating Junction Temperature Range	T _{OPR}	0—+125	
Storage Temperature Range	T _{STG}	-55—+150	

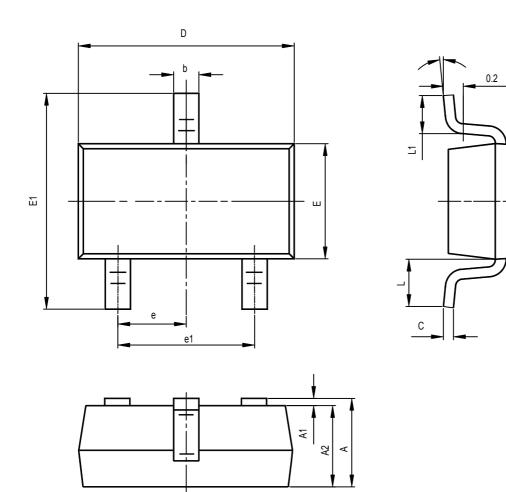
ELECTRICAL CHARACTERISTICS(VI=10V,lo=40mA,0 <Tj<125 ,C1=0.33 μ F,Co=0.1 μ F, unless otherwise specified)

Parameter	Symbol	Test conditions M		TYP	MAX	UNIT
Output voltage		Tj=25	4.8	5.0	5.2	V
	Vo	7V V, 20V, Io=1mA-40mA	4.75	5.0	5.25	V
	VO	7V V V VMAX, Io=1mA-70mA	4.75	5.0	5.25	V (note)
Load Regulation	Vo	Tj=25 , Io=1mA-100mA		11	60	mV
	VO	Tj=25 , Io=1mA-40mA		5.0	30	mV
Line regulation	Vo	7V V ₁ 20V, Tj=25		32	150	mV
	VO	8V V, 20V, Tj=25		26	100	mV
Quiescent Current	Iq	25oC		3.8	6	mA
Quiescent Current Change	Iq	8V V 1 20V			1.5	mA
	Iq	1mA V 40mA			0.1	mA
Output Noise Voltage	V _N	10Hz f 100KHz		42		uV
Ripple Rejection	RR	8V V, 18V, f=120Hz, Tj=25	41	80		dB
Dropout Voltage	Vd	Tj=25		1.7		V



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

SOT-23-3L PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.300	0.400	0.012	0.016	
С	0.100	0.200	0.004	0.008	
D	2.820	3.020	0.111	0.119	
E	1.500	1.700	0.059	0.067	
E1	2.650	2.950	0.104	0.116	
е	0.950TPY		0.037TPY		
e1	1.800	2.000	0.071	0.079	
L	0.700REF		0.028REF		
L1	0.300	0.600	0.012	0.024	
θ	0°	8°	0°	8°	