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JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-89 Encapsulate Three Terminal Voltage Regulator

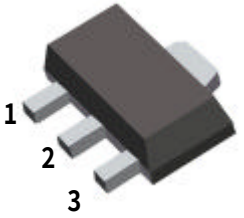
CJ78L05 Three-terminal positive voltage regulator

SOT-89

1.OUT

2.GND

3.IN



FEATURES

Maximum Output current

I_{OM}: 0.1 A

Output voltage

V_o: 5 V

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

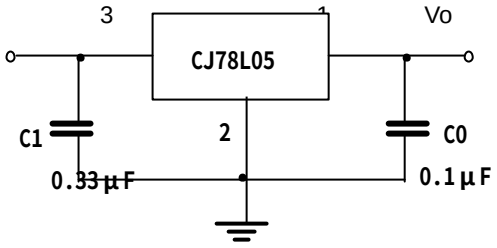
Parameter	Symbol	Value	Unlts
Input Voltage	V_I	30	V
Operating Junction Temperature Range	T_{OPR}	0—+125	℃
Storage Temperature Range	T_{STG}	-55—+150	℃

ELECTRICAL CHARACTERISTICS

(VI=10V,Io=40mA,0℃<Tj<125℃,C1=0.33μF,Co=0.1μF, unless otherwise specified)

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

TYPICAL APPLICATION

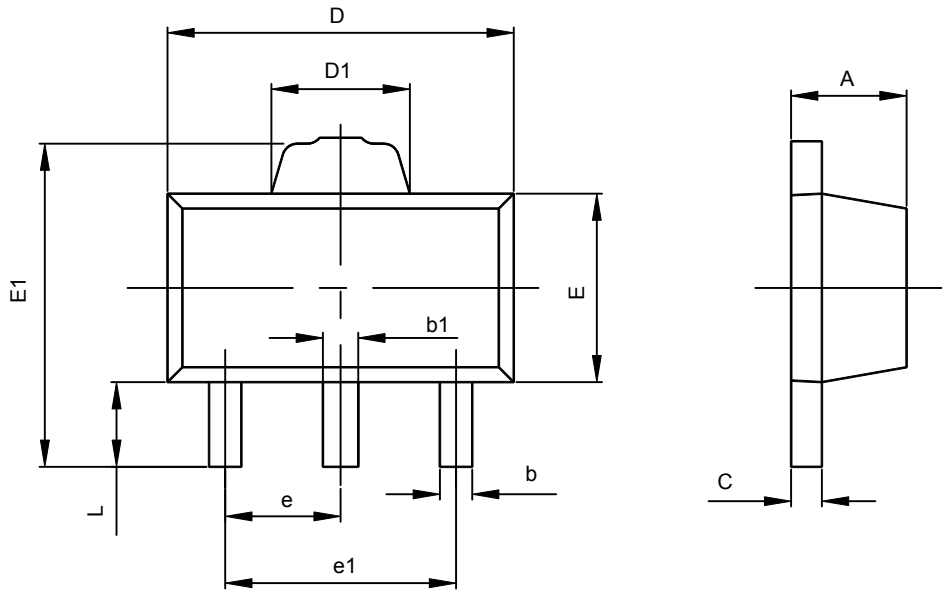


Note : Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

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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

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