JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

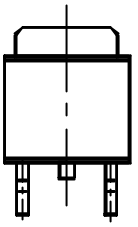
TO-252 Encapsulate Three-terminal Voltage Regulator

TO-252

1.INPUT

2. GND

3. OUTPUT



1 2 3

CJ78M05 Three-terminal positive voltage regulator

FEATURES

Maximum Output current

I_{OM} : 0.5 A

Output voltage

V_o : 5 V

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

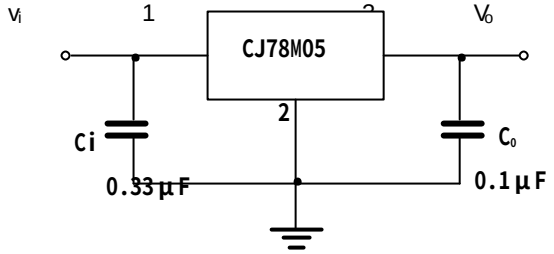
Parameter	Symbol	Value	Unlts
Input Voltage	V_i	7~25	V
Storage Temperature Range	T_{stg}	-85 to 150	℃

ELECTRICAL CHARACTERISTICS

(Vi=10V,Io=350mA,0℃<Tj<125℃,C1=0.33μF,Co=0.1μF, unless otherwise specified)

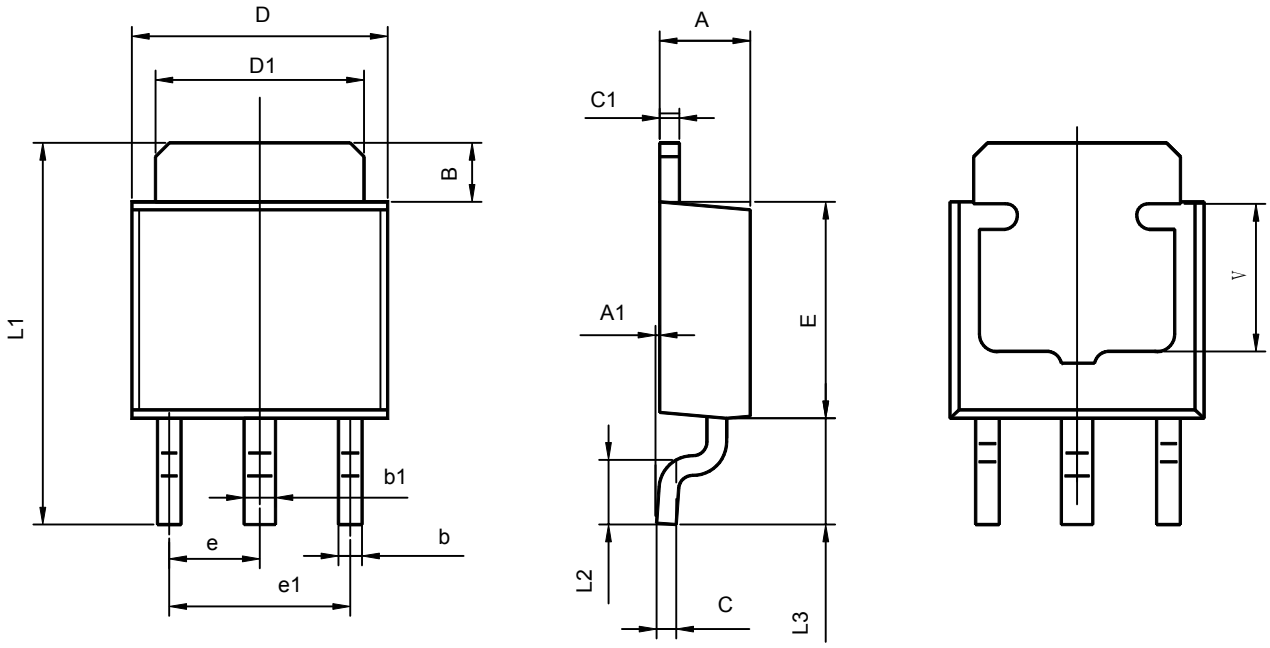
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	Vo	Tj=25℃	4.8	5.0	5.2	V
		7V≤V_i≤20V, Io=5mA-350mA	4.75	5	5.25	V
Load Regulation	△Vo	Tj=25℃, Io=5mA-500mA			100	mV
		Tj=25℃, Io=5mA-200mA			50	mV
Line regulation	△Vo	7V≤V_i≤25V, Io=200mA ,Tj=25℃			100	mV
		8V≤V_i≤25V, Io=200mA ,Tj=25℃			50	mV
Quiescent Current	Iq	Tj=25℃			6	mA
Quiescent Current Change	△Iq	8V≤V_i≤25V, Io=200mA			0.8	mA
	△Iq	5mA≤I_o≤350mA			0.5	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz, Tj=25℃		40		μV
Dropout Voltage	Vd	Tj=25℃		0.7		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.

TO-252-3L PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	2.200	2.400	0.087	0.094
A1	0.000	0.127	0.000	0.005
B	1.350	1.650	0.053	0.065
b	0.500	0.700	0.020	0.028
b1	0.700	0.900	0.028	0.035
c	0.430	0.580	0.017	0.023
c1	0.430	0.580	0.017	0.023
D	6.350	6.650	0.250	0.262
D1	5.200	5.400	0.205	0.213
E	5.400	5.700	0.213	0.224
e	2.300TYP		0.091TYP	
e1	4.500	4.700	0.177	0.185
L1	9.500	9.900	0.374	0.390
L2	1.400	1.780	0.055	0.070
L3	2.550	2.900	0.100	0.114
V	3.80REF		0.150REF	