JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD



TO-252 Encapsulate Three-terminal Voltage Regulator

CJ78M05 Three-terminal positive voltage regulator

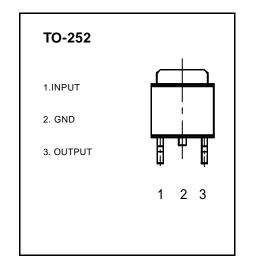
FEATURES

Maximum Output current

I_{OM} : 0.5 A

Output voltage

V_o: 5 V



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

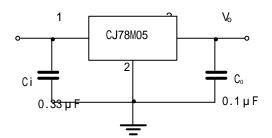
Parameter	Symbol	Value	Units
Input Voltage	V i	7~25	V
Storage Temperature Range	T _{stg}	-85 to 150	

ELECTRICAL CHARACTERISTICS

(Vi=10V,lo=350mA,0 <Tj<125 ,C1=0.33 μ F,Co=0.1 μ F, unless otherwise specified)

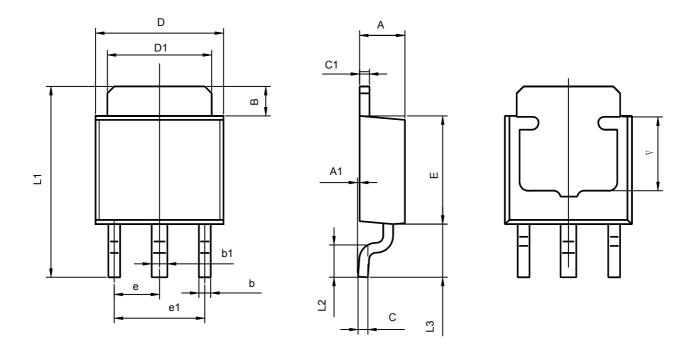
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	Vo	Tj=25	4.8	5.0	5.2	V
Output voltage		7V V; 20V, Io=5mA-350mA	4.75	5	5.25	V
Load Regulation	Vo	Tj=25 , Io=5mA-500mA			100	mV
		Tj=25 , Io=5mA-200mA			50	mV
Line regulation	Vo	7V V; 25V, Io=200mA ,Tj=25			100	mV
		8V V; 25V, Io=200mA ,Tj=25			50	mV
Quiescent Current	Iq	Tj=25			6	mA
Quiescent Current Change	Iq	8V V; 25V, Io=200mA			0.8	mA
	Iq	5mA I 0 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	
Α	2.200	2.400	0.087	0.094	
A1	0.000	0.127	0.000	0.005	
В	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	
С	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	
е	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	3.80F	REF	0.150REF		