

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

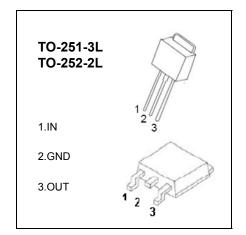
TO-251-3L/TO-252-2L Plastic-Encapsulate Regulators

CJ78M05 Three-terminal positive voltage regulator

FEATURES

 $\begin{array}{c} \text{Maximum output current} \\ I_{\text{OM}}\text{: } 0.5 \text{ A} \\ \text{Output voltage} \\ V_{\text{O}}\text{: } 5\text{V} \\ \text{Continuous total dissipation} \end{array}$

P_D: 1.25 W



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

Parameter	Symbol	Value	Unit
Input Voltage	Vi	25	V
Operating Junction Temperature Range	T _{OPR}	0-+125	$^{\circ}$
Storage Temperature Range	T _{STG}	-65-+150	${f c}$

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE (Vi=10V,lo=350mA, Ci=0.33µF,Co=0.1µF,unless otherwise specified)

Symbol	Test conditions		Min	Тур	Max	Unit
		25℃	4.8	5	5.2	V
Vo	7V≤V _i ≤20V, lo=5mA-350mA	0-125℃	4.75	5	5.25	V
	Po≤ 15W					
۸۷۵	Io=5mA-0.5A	25℃		15	100	mV
100	Io=5mA-200mA	25℃		5	50	mV
۸\/م	7V≤V i≤25V, Io=200mA	25℃		3	100	mV
400	8V≤V _i ≤25V, Io=200mA	25°C		1	50	mV
Iq		25°C		4.2	6	mA
Quiescent Current Change	8V≤V _i ≤25V, Io=200mA	0-125℃			0.8	mA
Δlq	5mA≤I _O ≤350mA	0-125℃			0.5	mA
V _N	10Hz≤ f ≤100KHz	25°C		40	200	μV
RR	8V≤V _i ≤18V,f=120Hz,lo=300mA	0-125℃	62	80		dB
Vd	Io=350mA	25℃		2	2.5	V
Isc	Vi=10V	25°C		300		mA
lpk		25℃		0.5		Α
	Vo ΔVo Iq ΔIq ΔIq V _N RR Vd Isc	$Vo \qquad 7V \leq V_{i} \leq 20V, \ lo=5mA-350mA \\ Po \leq 15W \\ \hline \Delta Vo \qquad lo=5mA-0.5A \\ \hline lo=5mA-200mA \\ \hline AVo \qquad 7V \leq V_{i} \leq 25V, \ lo=200mA \\ \hline 8V \leq V_{i} \leq 25V, \ lo=200mA \\ \hline lq \qquad \Delta lq \qquad 8V \leq V_{i} \leq 25V, \ lo=200mA \\ \hline \Delta lq \qquad 5mA \leq l_{O} \leq 350mA \\ \hline V_{N} \qquad 10Hz \leq f \leq 100KHz \\ \hline RR \qquad 8V \leq V_{i} \leq 18V, f=120Hz, lo=300mA \\ \hline Vd \qquad lo=350mA \\ \hline lsc \qquad Vi=10V \\ \hline \end{tabular}$	Vo $7V \le V$ ≤ 20V, lo=5mA-350mA 0-125°C Po≤ 15W 0-125°C ΔVo lo=5mA-0.5A 25°C Io=5mA-200mA 25°C Δ Vo $7V \le V$ ≤ 25V, lo=200mA 25°C 8V ≤ V ≤ 25V, lo=200mA 25°C Δlq 8V ≤ V ≤ 25V, lo=200mA 0-125°C Δlq 5mA ≤ lo ≤ 350mA 0-125°C VN 10Hz ≤ f ≤ 100KHz 25°C RR 8V ≤ V ≤ 18V f=120Hz lo=300mA 0-125°C Vd lo=350mA 25°C Isc Vi=10V 25°C	$Vo \qquad 7V \leq V_{i} \leq 20V, \ Io = 5mA - 350mA \qquad 0 - 125^{\circ}C \qquad 4.8$ $Vo \qquad Po \leq 15W \qquad \qquad 25^{\circ}C \qquad \qquad 4.75$ $AVo \qquad Io = 5mA - 0.5A \qquad 25^{\circ}C \qquad \qquad 25^{\circ}C \qquad \qquad \qquad 25^{\circ}C \qquad \qquad$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

