G

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-220 Plastic-Encapsulate Transistors

CJ78M05 Three-terminal positive voltage regulator

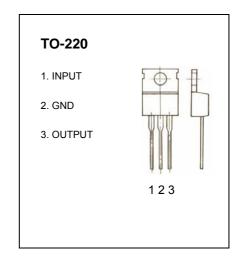
FEATURES

Maximum Output current

I_{OM}: 0.5 A

Output voltage

V_o: 5 V



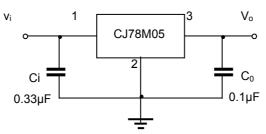
ABSOLUTE MAXIMUM RATINGS(Operating temperature range applies unless otherwise specified)

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

ELECTRICAL CHARACTERISTICS (Vi=10V,lo=350mA,0°C<Tj<125°C,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
	VO	7V≤V i≤20V, Io=5mA~350mA	4.75	5	5.25	V
Load Regulation	ΔVο	Tj=25°C, lo=5mA~500mA			100	mV
	Δνο	Tj=25°C, Io=5mA~200mA			50	mV
Line regulation	ΔVο	7V≤V i≤25V, Io=200mA ,Tj=25°C			100	mV
	Δνο	8V≤V i≤25V, Io=200mA ,Tj=25°C			50	mV
Quiescent Current	lq	Tj=25℃			6	mA
Quiescent Current Change	Δlq	8V≤V i≤25V, Io=200mA			0.8	mA
	Δlq	5mA≤I _O ≤350mA			0.5	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz, Tj=25°C		40	200	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.