



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-251/TO-252-2L Plastic-Encapsulate Transistors

CJ78M12 Three-terminal positive voltage regulator

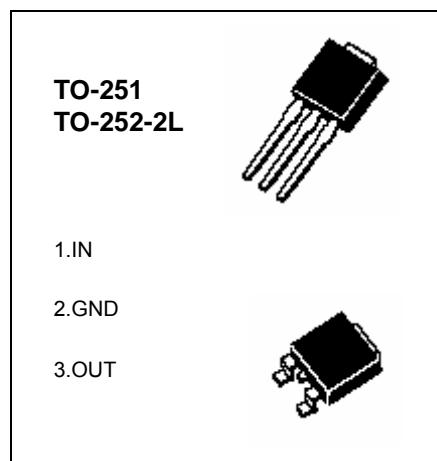
FEATURES

Maximum Output current I_{OM} : 0.5 AOutput voltage V_O : 12V

Continuous total dissipation

 P_D : 1.25 W ($T_a = 25^\circ C$)15 W ($T_c = 25^\circ C$)

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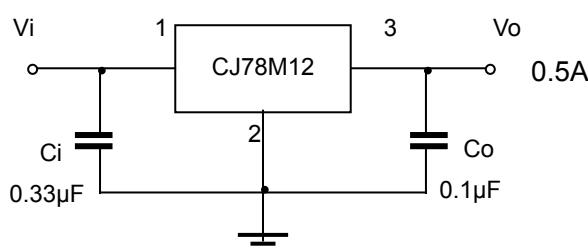
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
Operating Junction Temperature Range	T_{OPR}	0-+125	°C
Storage Temperature Range	T_{STG}	-65-+150	°C

ELECTRICAL CHARACTERISTICS ($V_i=19V, I_o=350mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT	
Output voltage	V_o	25°C	11.5	12	12.5	V	
		14.5≤ V_i ≤27V, $I_o=5mA-350mA$ $P_o \leq 1.25W$	0-125°C	11.4	12	12.6	V
Load Regulation	ΔV_o	$I_o=5mA-500mA$	25°C		25	240	mV
		$I_o=5mA-200mA$	25°C		10	120	mV
Line regulation	ΔV_o	14.5V≤ V_i ≤30V, $I_o=200mA$	25°C		10	100	mV
		16V≤ V_i ≤30V, $I_o=200mA$	25°C		3	50	mV
Quiescent Current	I_q		25°C		4.6	6	mA
Quiescent Current Change	ΔI_q	14.5V≤ V_i ≤30V, $I_o=200mA$	0-125°C			0.8	mA
	ΔI_q	5mA≤ I_o ≤350mA	0-125°C			0.5	mA
Output Noise Voltage	V_N	10Hz≤ f ≤100KHz	25°C		75		uV
Ripple Rejection	RR	15≤ V_i ≤25V, $f=120Hz, I_o=300mA$	0-125°C	55	80		dB
Dropout Voltage	V_d	$I_o=350mA$	25°C		2		V
Short Circuit Current	I_{sc}	$V_i=19V$	25°C		240		mA
Peak Current	I_{pk}		25°C		0.7		A

TYPICAL APPLICATION



Typical Characteristics

CJ78MXX

