



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

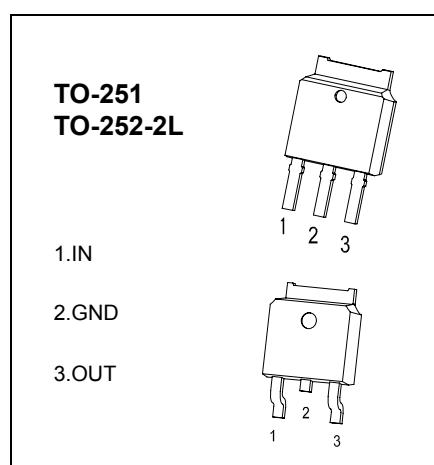
## TO-251/TO-252-2L Plastic-Encapsulate Regulators

### CJ78M15 Three-terminal positive voltage regulator

#### FEATURES

Maximum Output current  $I_{OM}$ : 0.5 AOutput voltage  $V_O$ : 15V

Continuous total dissipation

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

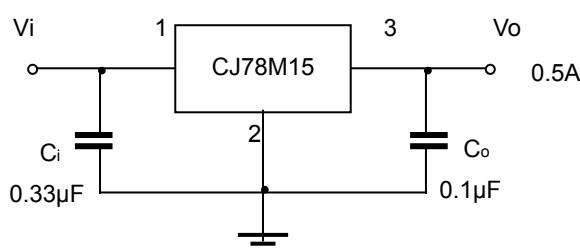
#### ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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 ( $V_i=23V, I_o=350mA, C_i=0.33\mu F, C_o=0.1\mu F$ , unless otherwise specified )

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	$V_o$	$V_i=23V, I_o=350mA$	25°C	14.4	15	15.6 V
		$17.5 \leq V_i \leq 30V, I_o=5mA~350mA$ $P_o \leq 15W$	0~125°C	14.25	15	15.75 V
Load Regulation	$\Delta V_o$	$I_o=5mA~500mA$	25°C		300	mV
		$I_o=5mA~200mA$	25°C		150	mV
Line Regulation	$\Delta V_o$	$17.5V \leq V_i \leq 30V, I_o=200mA$	25°C		100	mV
		$20V \leq V_i \leq 26V, I_o=200mA$	25°C		50	mV
Quiescent Current	$I_q$	$V_i=23V, I_o=350mA$	25°C		6	mA
Quiescent Current Change	$\Delta I_q$	$17.5V \leq V_i \leq 30V, I_o=200mA$	0~125°C		0.8	mA
	$\Delta I_q$	$V_i=23V, I_o=5mA~350mA$	0~125°C		0.5	mA
Output Noise Voltage	$V_N$	$10Hz \leq f \leq 100KHz$	25°C	90		μV
Ripple Rejection	$RR$	$18.5 \leq V_i \leq 28.5V, f=120Hz, I_o=300mA$	0~125°C	54		dB
Dropout Voltage	$V_d$		25°C		2	V

#### TYPICAL APPLICATION



# Typical Characteristics

CJ78M15

