

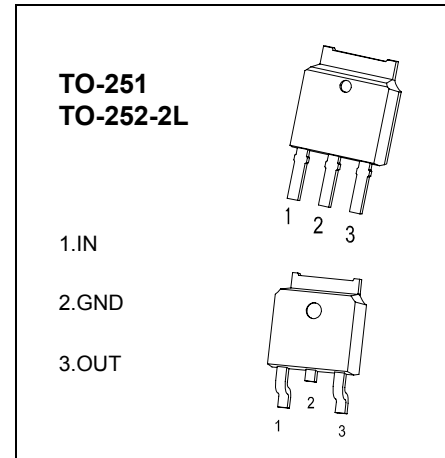


**TO-251/TO-252-2L Plastic-Encapsulate Regulators**

**CJ78M15** Three-terminal positive voltage regulator

**FEATURES**

- Maximum Output current  $I_{OM}$ : 0.5 A
- Output voltage  $V_O$ : 15V
- Continuous total dissipation  
 $P_D$ : 1.25 W ( $T_a = 25^\circ\text{C}$ )



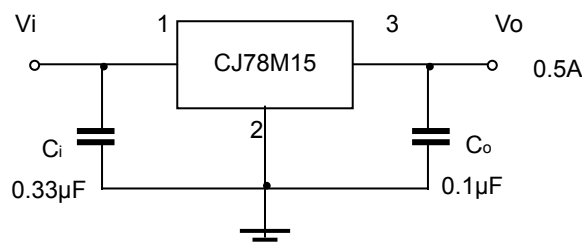
**ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)**

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

**ELECTRICAL CHARACTERISTICS ( $V_i=23\text{V}, I_o=350\text{mA}, C_i=0.33\mu\text{F}, C_o=0.1\mu\text{F}$ , unless otherwise specified )**

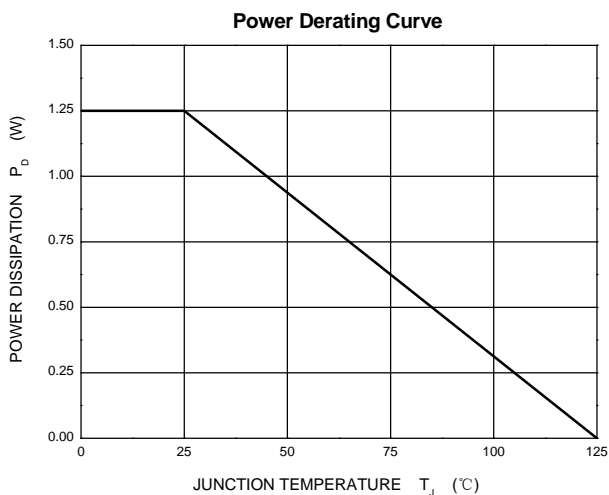
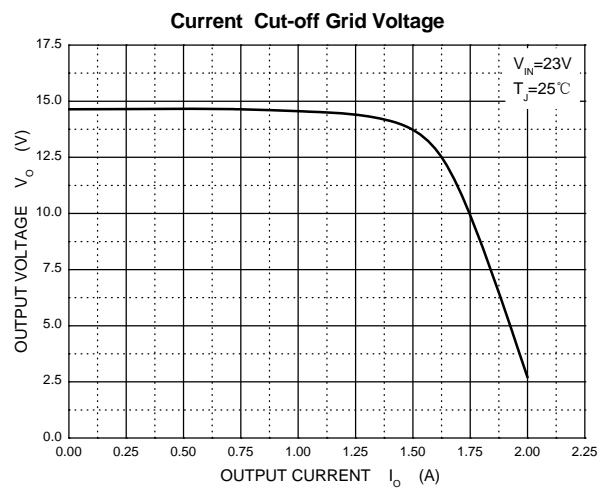
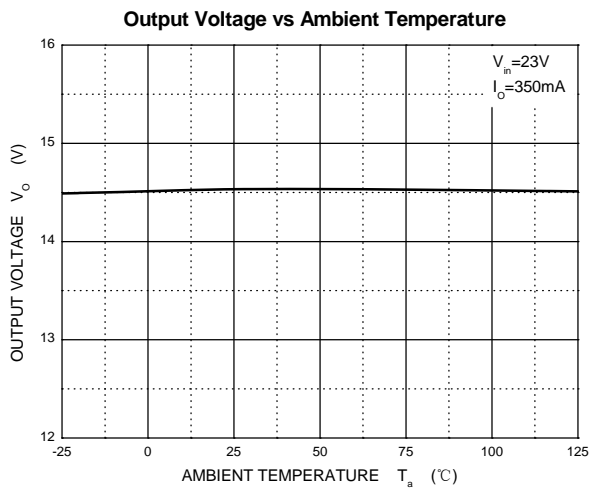
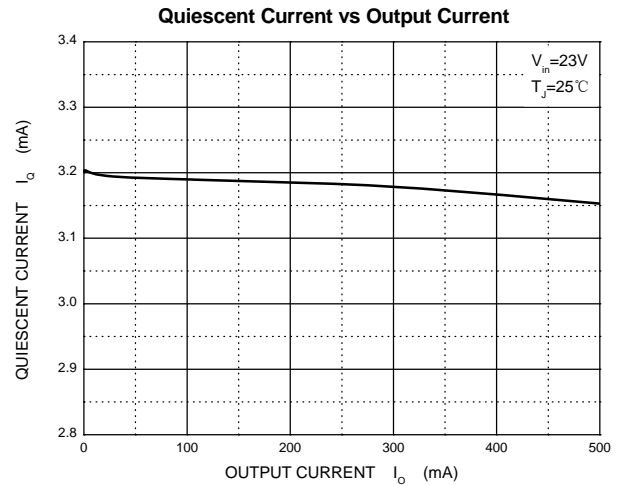
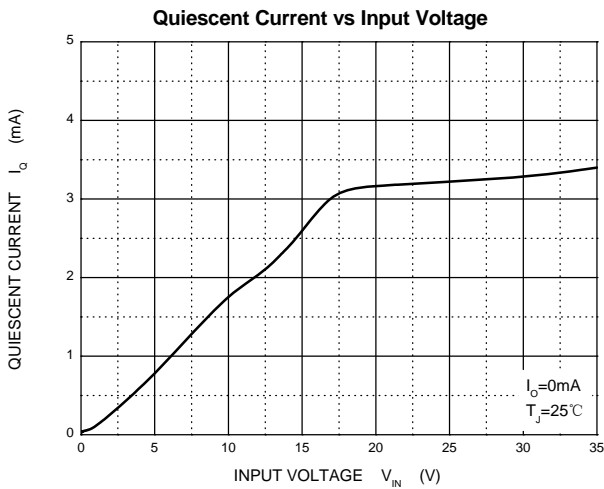
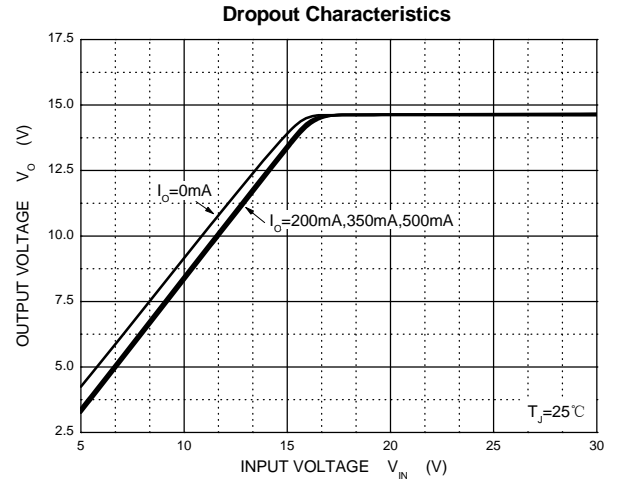
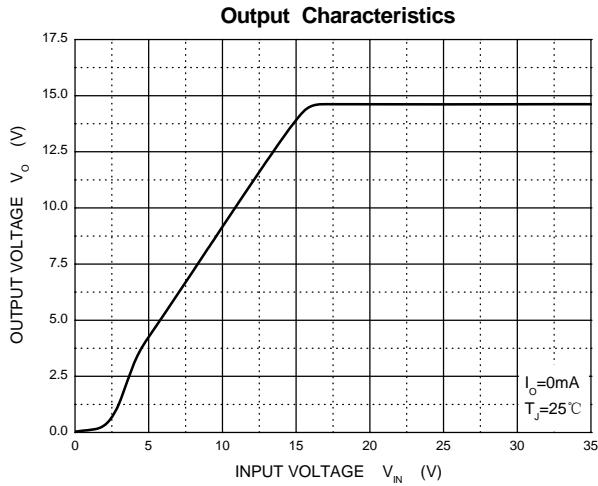
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit	
Output Voltage	$V_o$	$V_i=23\text{V}, I_o=350\text{mA}$	25 $^\circ\text{C}$	14.4	15	15.6	V
		$17.5\text{V} \leq V_i \leq 30\text{V}, I_o=5\text{mA} \sim 350\text{mA}$ $P_o \leq 15\text{W}$	0-125 $^\circ\text{C}$	14.25	15	15.75	V
Load Regulation	$\Delta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

**TYPICAL APPLICATION**



# Typical Characteristics

# CJ78M15



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