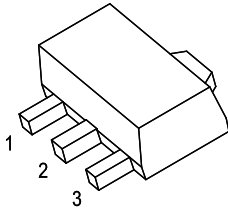


### FEATURES

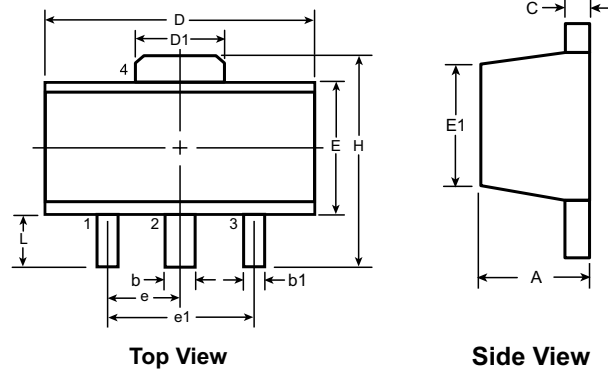
- Maximum output current  
 $I_{OM}$ : 0.1 A
- Output voltage  
 $V_o$ : 15 V
- Continuous total dissipation  
 $P_D$ : 0.5 W

### SOT-89-3L

- 1. OUT
- 2. GND
- 3. IN



### SOT-89 PACKAGE OUTLINE



Symbol	A	b	b1	C	D	D1	E	E1	e	e1	H	L	
Dimensions (mm)	MIN	1.40	0.44	0.36	0.3	4.40	1.50	2.29	2.00'	1.50	3.00	3.94	0.89
	NOM	-	-	-	-	-	-	-	-	BSC	BSC	-	-
	MAX	1.60	0.56	0.48	0.5	4.60	1.75	2.60	2.29	-	-	4.25	1.20

Dimensions in mm

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

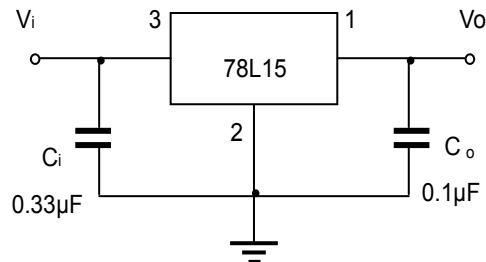
Parameter	Symbol	Value	Units
Input Voltage	$V_I$	35	V
Operating Junction Temperature Range	$T_{OPR}$	0~+150	°C
Storage Temperature Range	$T_{STG}$	-55~+150	°C

# 78L15

**ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE** ( $V_i=23V, I_o=40mA, C_i=0.33\mu F, C_o=0.1\mu F$ , unless otherwise specified )

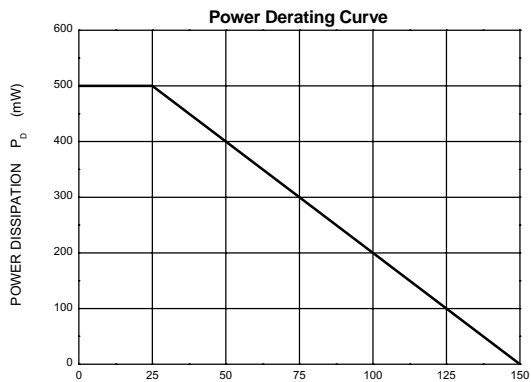
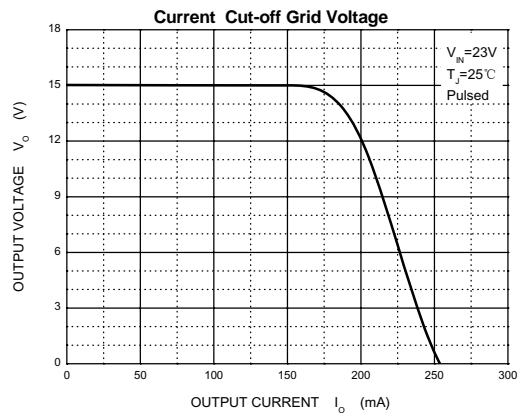
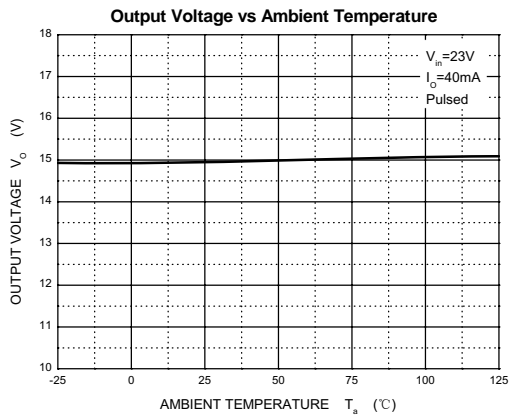
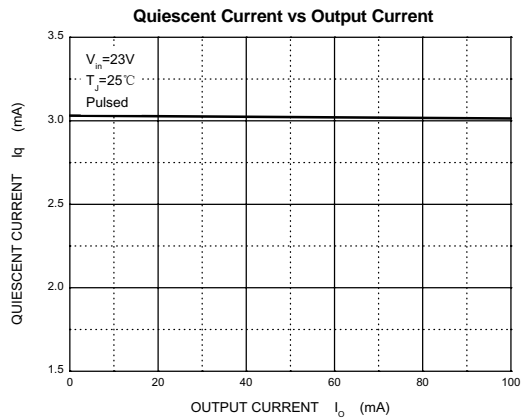
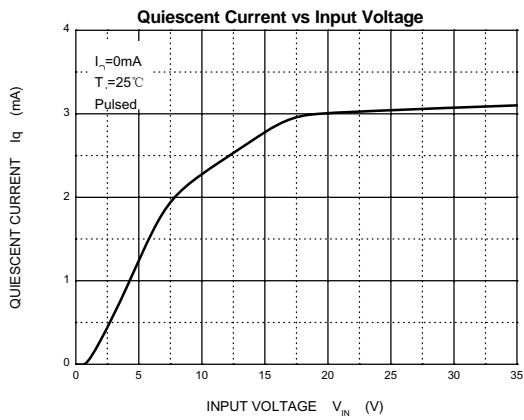
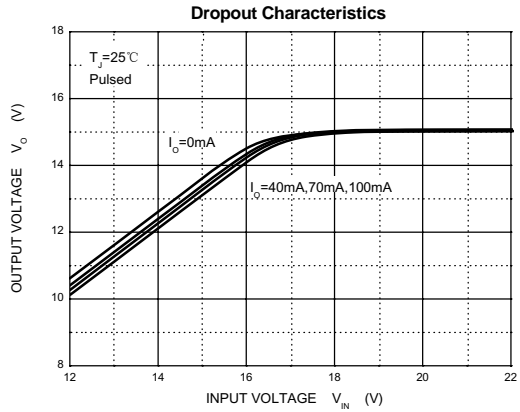
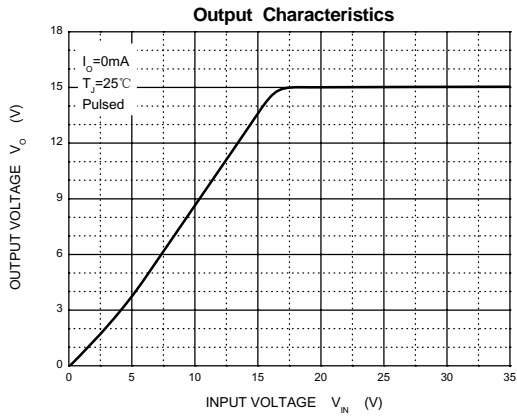
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	$V_o$	$25^\circ C$	14.4	15	15.6	V
		$17.5V \leq V_i \leq 30V, I_o=1mA-40mA$	14.25	15	15.75	V
		$0-125^\circ C$ $V_i=23V, I_o=1mA-70mA$	14.25	15	15.75	V
Load Regulation	$\Delta V_o$	$I_o=1mA-100mA, V_i=23V$	$25^\circ C$	25	150	mV
		$I_o=1mA-40mA, V_i=23V$	$25^\circ C$	15	75	mV
Line regulation	$\Delta V_o$	$17.5V \leq V_i \leq 30V, I_o=40mA$	$25^\circ C$	65	300	mV
		$19V \leq V_i \leq 30V, I_o=40mA$	$25^\circ C$	58	250	mV
Quiescent Current	$I_q$		$25^\circ C$	4.6	6.5	mA
Quiescent Current Change	$\Delta I_q$	$19V \leq V_i \leq 30V, I_o=40mA$	$0-125^\circ C$		1.5	mA
	$\Delta I_q$	$1mA \leq I_o \leq 40mA, V_i=23V$	$0-125^\circ C$		0.1	mA
Output Noise Voltage	$V_N$	$10Hz \leq f \leq 100KHz$	$25^\circ C$	82		$\mu V$
Ripple Rejection	RR	$18.5V \leq V_i \leq 28.5V, f=120Hz$	$0-125^\circ C$	34	39	dB
Dropout Voltage	$V_d$		$25^\circ C$	1.7		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.

# RATING AND CHARACTERISTIC CURVES (78L15)



C,Nov,2012

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