

**TO-252/TO-251 Plastic-Encapsulate Voltage Regulators**
**L79M15 Three-terminal negative voltage regulator**
**FEATURES:**

※ Maximum output current

**IOM: 0.5A**

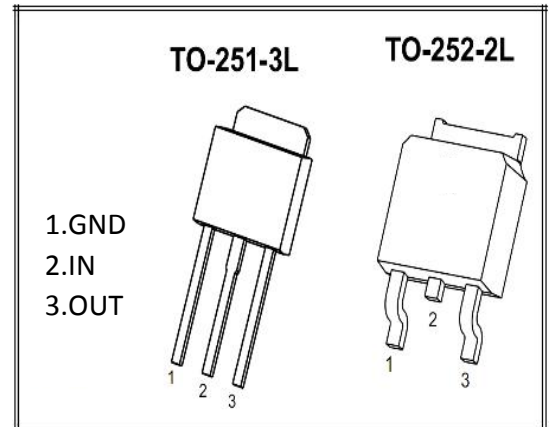
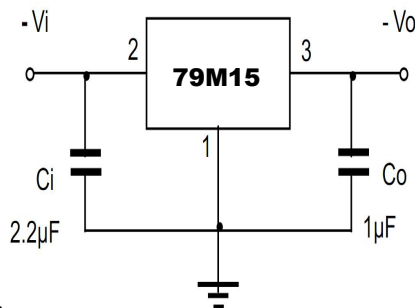
※ Output voltage

**VO: -15V**

※ Continuous total dissipation

**PD: 1.25W**
**MARKING:**
**79M15 D / U \*\*\*\***

logo (D→252) / (U→251) \*\*\*\*→Date

**TYPICAL APPLICATION:**

**Absolute Maximum ratings (Operating temperature range applies unless otherwise specified)**

Parameter	Symbol	Value	Unit
Input Voltage	$V_i$	-35	V
Thermal Resistance From Junction to air	$R_{\theta JA}$	80	$^{\circ}\text{C}/\text{W}$
Operating Junction Temperature Range	TOPR	-25~+125	$^{\circ}\text{C}$
Storage Temperature Range	TSTG	-55~+150	$^{\circ}\text{C}$

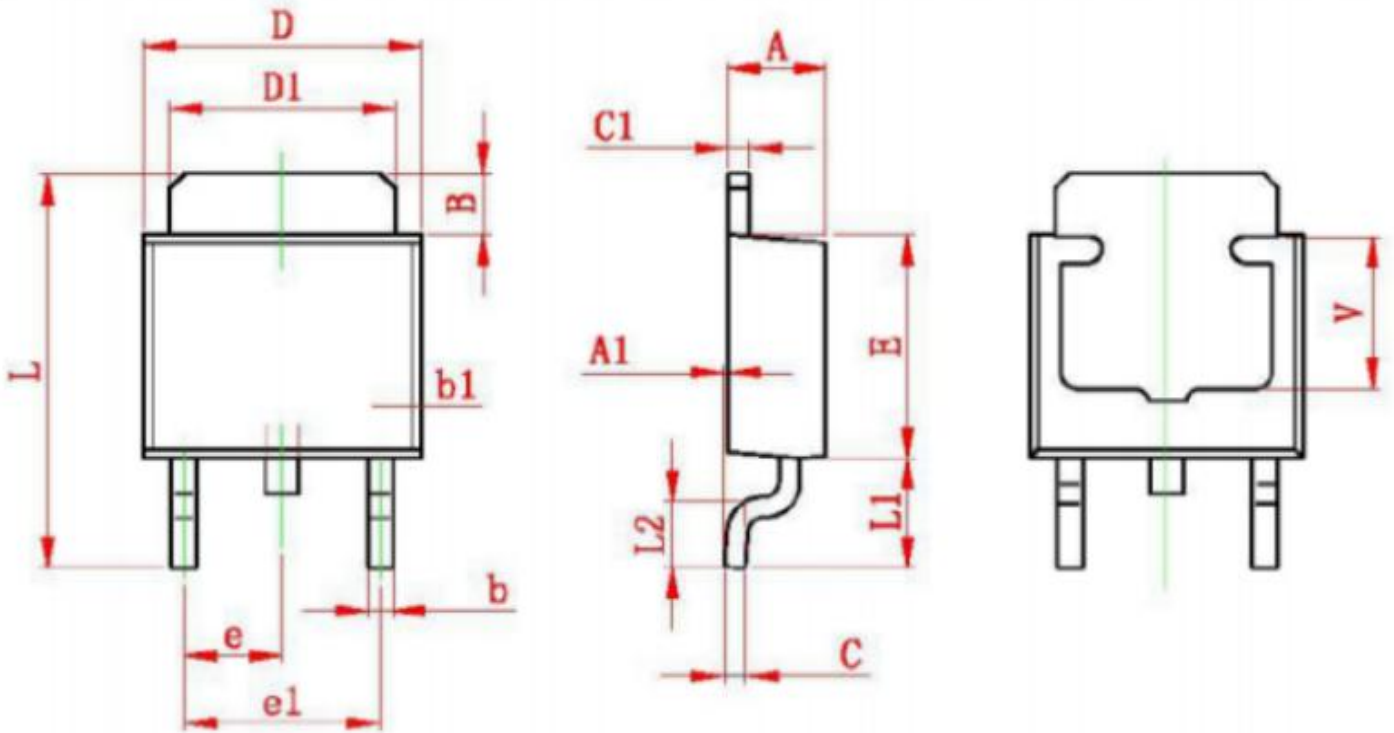
**Electrical Characteristics At Specified Virtual Junction Temperature**

 ( $V_i = -23\text{V}$ ,  $I_o = 350\text{mA}$ ,  $C_i = 0.33\mu\text{F}$ ,  $C_o = 0.1\mu\text{F}$ . Unless Otherwise Specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Output voltage	$V_O$	$25^{\circ}\text{C}$	-14.4	-15	-15.6	V
		$-18\text{V} \leq V_i \leq -32\text{V}$ , $I_o = 5\text{mA} \sim 350\text{mA}$	-25~+125	-14.25	-15	-15.75
Load Regulation	$\Delta V_O$	$I_o = 5\text{mA} \sim 0.5\text{A}$ , $V_i = -23\text{V}$	$25^{\circ}\text{C}$	30	300	mV
		$I_o = 5\text{mA} \sim 200\text{mA}$ , $V_i = -23\text{V}$	$25^{\circ}\text{C}$	15	150	mV
Line Regulation	$\Delta V_O$	$-18\text{V} \leq V_i \leq -32\text{V}$ , $I_o = 200\text{mA}$	$25^{\circ}\text{C}$	6	100	mV
		$-18\text{V} \leq V_i \leq -32\text{V}$ , $I_o = 200\text{mA}$	$25^{\circ}\text{C}$	2	50	mV
Quiescent Current	$I_q$	$25^{\circ}\text{C}$		4.2	6	mA
Quiescent Current Change	$\Delta I_q$	$-18\text{V} \leq V_i \leq -32\text{V}$ , $I_o = 200\text{mA}$	-25~+125		0.8	mA
	$\Delta I_q$	$5\text{mA} \leq I_o \leq 350\text{mA}$	-25~+125		0.5	mA
Output Noise Voltage	$V_N$	$10\text{Hz} \leq f \leq 100\text{KHz}$	$25^{\circ}\text{C}$	85	200	$\mu\text{V}/V_o$
Ripple Rejection	$R_r$	$-18\text{V} \leq V_i \leq -30\text{V}$ , $f = 120\text{Hz}$ , $I_o = 300\text{mA}$	-25~+125	59	80	dB
Dropout Voltage	$V_d$	$I_o = 350\text{mA}$	$25^{\circ}\text{C}$	2	2.5	V
Short Circuit Current	$I_{sc}$	$V_i = -23\text{V}$	$25^{\circ}\text{C}$	250		mA
Peak Current	$I_{PK}$		$25^{\circ}\text{C}$	0.7		A
Output Voltage Drift	$\Delta V_O / \Delta T$	$I_o = 5\text{mA}$	$25^{\circ}\text{C}$		-0.9	$\text{mV}/^{\circ}\text{C}$

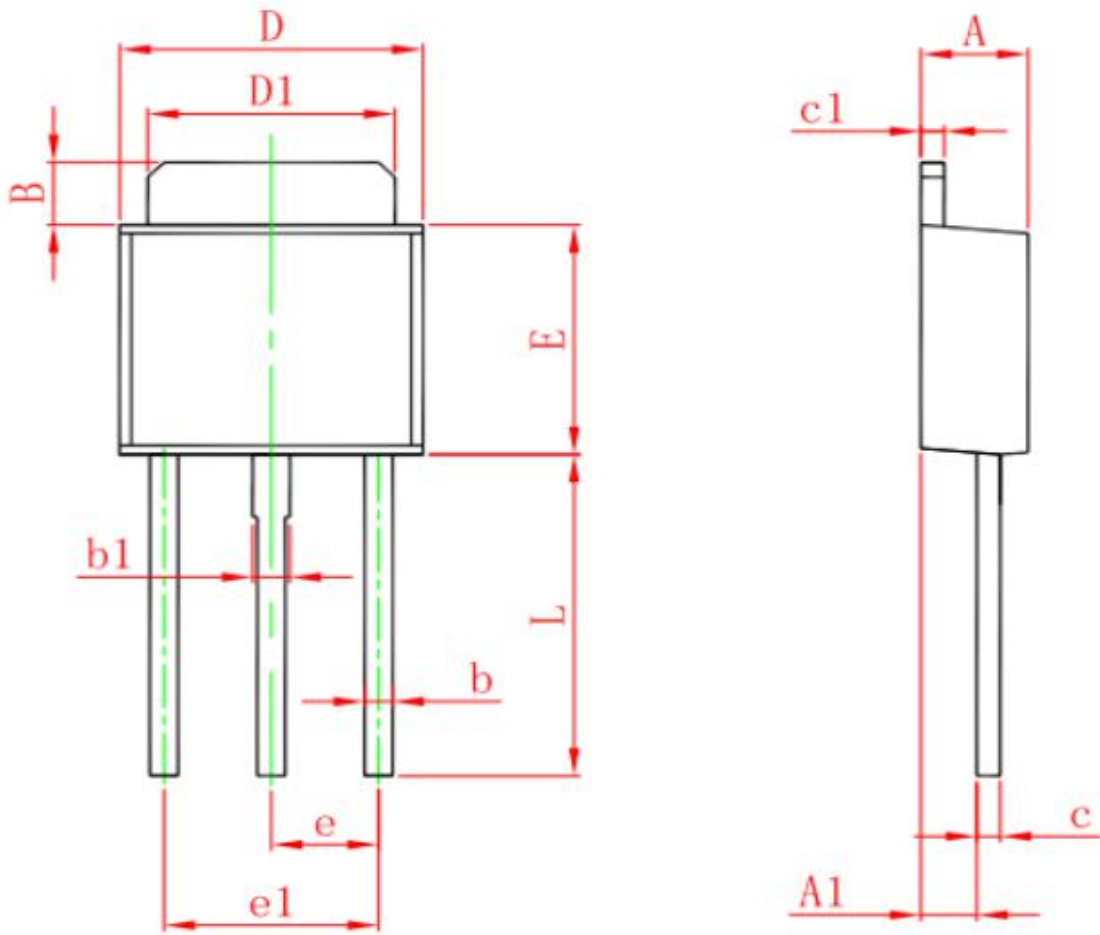
Note : Bypass Capacitors are Recommended For Optimum Stability and Transient Response and Should be located as Close as Possible to the Regulators

### Package Dimensions:



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	2.200	2.400	0.087	0.094
A1	0.000	0.127	0.000	0.005
B	1.350	1.650	0.053	0.065
b	0.500	0.700	0.020	0.028
b1	0.700	0.900	0.028	0.035
c	0.430	0.580	0.017	0.023
c1	0.430	0.580	0.017	0.023
D	6.350	6.650	0.250	0.262
D1	5.200	5.400	0.205	0.213
E	5.400	5.700	0.213	0.224
e	2.300 TYP		0.091 TYP	
e1	4.500	4.700	0.177	0.185
L	9.500	9.900	0.374	0.390
L1	2.550	2.900	0.100	0.114
L2	1.400	1.780	0.055	0.070
V	3.80 REF		0.150 REF	

### Package Dimensions:



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.200	2.400	0.087	0.094
A1	1.050	1.350	0.042	0.054
B	1.350	1.650	0.053	0.065
b	0.500	0.700	0.020	0.028
b1	0.700	0.900	0.028	0.035
c	0.430	0.580	0.017	0.023
c1	0.430	0.580	0.017	0.023
D	6.350	6.650	0.250	0.262
D1	5.200	5.400	0.205	0.213
E	5.400	5.700	0.213	0.224
e	2.300 TYP.		0.091 TYP.	
e1	4.500	4.700	0.177	0.185
L	7.500	7.900	0.295	0.311