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79L15 Three-terminal negative voltage regulator

SOT-89 Encapsulate Three Terminal Voltage Regulator

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客户确认：

公司签章：

部门	工程部	品保部	采购部
签名			
日期			



SOT-89 Encapsulate Three Terminal Voltage Regulator

79L15 Three-terminal negative voltage regulator

FEATURES

Maximum Output current

I_{OM} : 100 mA

Output voltage

V_O : -15 V

Continuous total dissipation

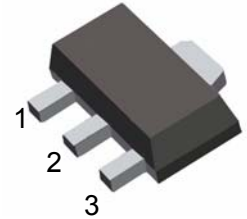
P_D : 0.5 W

SOT-89

1. GND

2. IN

3. OUT



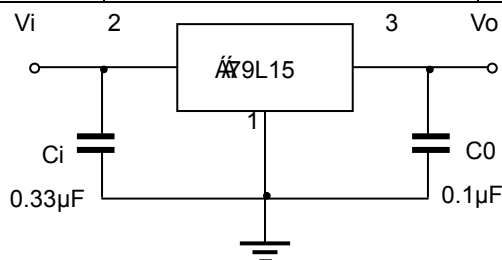
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V_i	-35	V
Operating Junction Temperature Range	T_{OPR}	0~+125	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

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°C	-14.4	-15	-15.6	V
		-17.5V ≤ V_i ≤ -30V, $I_o=1mA\sim 40mA$	-14.25	-15	-15.75	V
		0-125°C $I_o=1mA\sim 70mA$	-14.25	-15	-15.75	V
Load Regulation	ΔV_o	$I_o=1mA\sim 100mA, V_i=-23V$	25°C	25	150	mV
		$I_o=1mA\sim 40mA, V_i=-23V$	25°C	15	75	mV
Line regulation	ΔV_o	-17.5V ≤ V_i ≤ -30V, $I_o=40mA$	25°C	65	300	mV
		-20V ≤ V_i ≤ -30V, $I_o=40mA$	25°C	50	250	mV
Quiescent Current	I_q	25°C			6.5	mA
Quiescent Current Change	ΔI_q	-20V ≤ V_i ≤ -30V, $I_o=40mA$	0-125°C		1.5	mA
	ΔI_q	$1mA \leq I_o \leq 40mA$	0-125°C		0.1	mA
Output Noise Voltage	V_N	10Hz ≤ f ≤ 100KHz	25°C	90		μV
Ripple Rejection	RR	-18.5V ≤ V_i ≤ -28.5V, $f=120Hz$	0-125°C	34	39	dB
Dropout Voltage	V_d	25°C		1.7		V

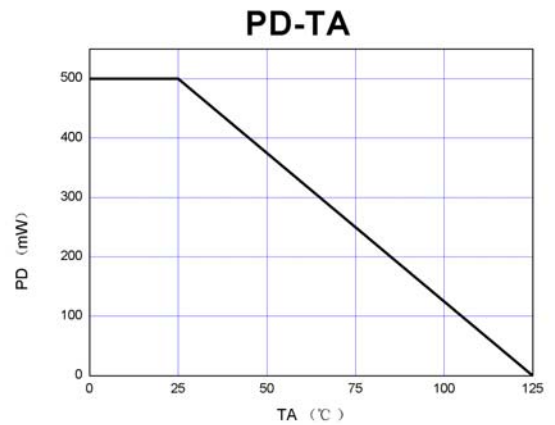
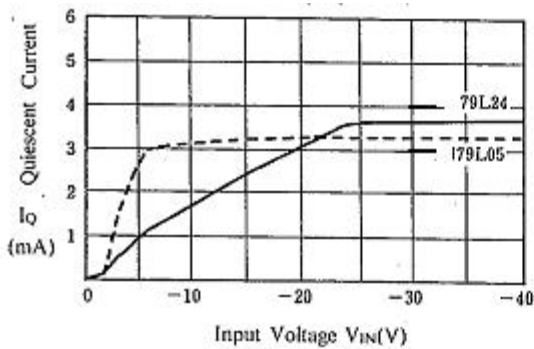
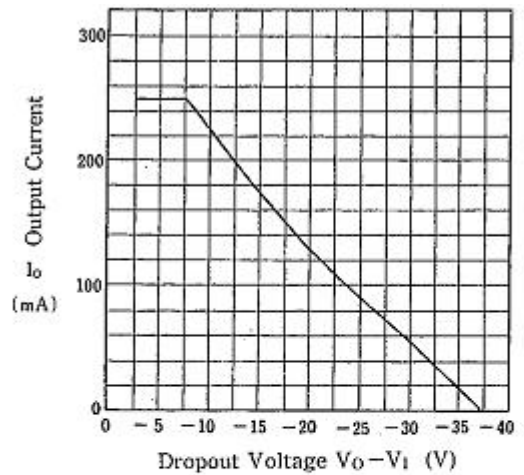
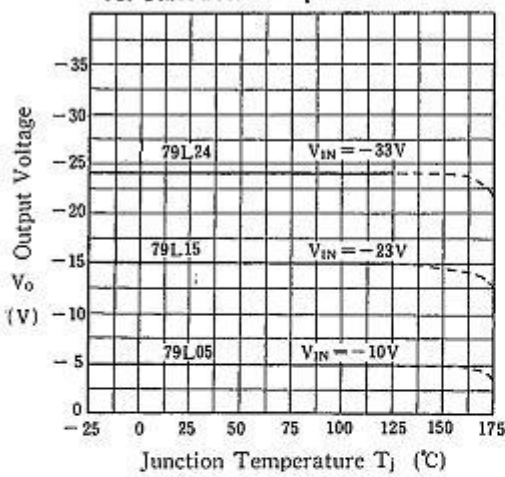
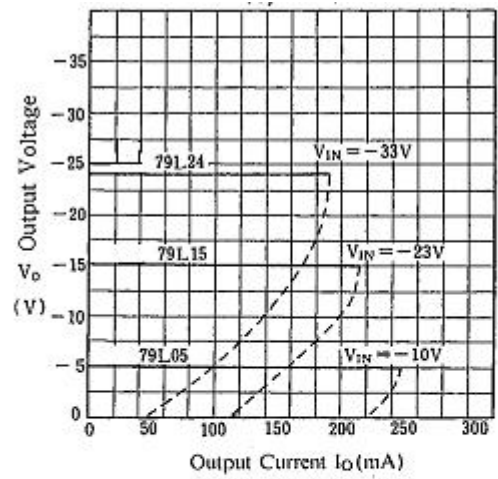
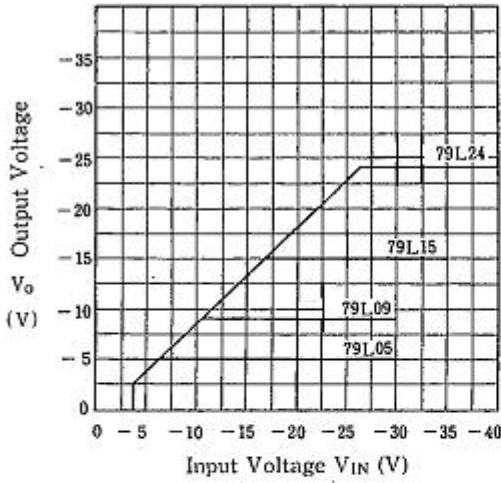
TYPICAL APPLICATION



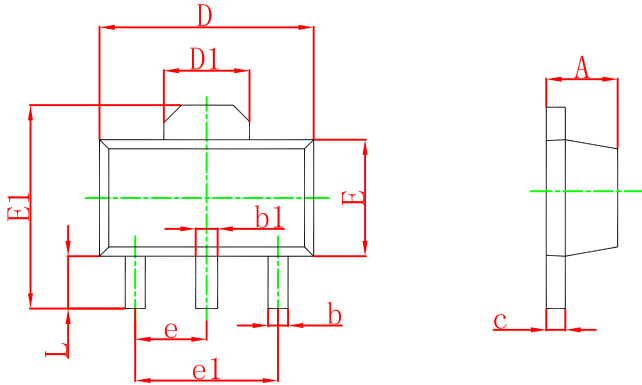
Note : Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

Typical Characteristics

79LXX

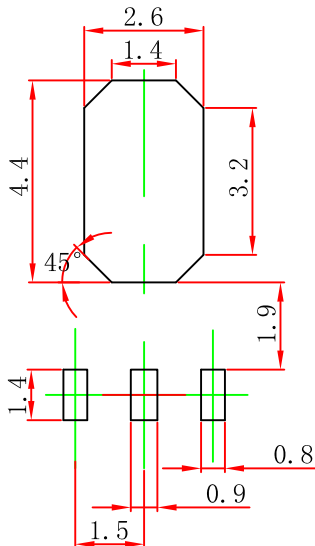


SOT-89-3L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF.		0.061 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047

SOT-89-3L Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.