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79L09 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

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FEATURES

Maximum Output current

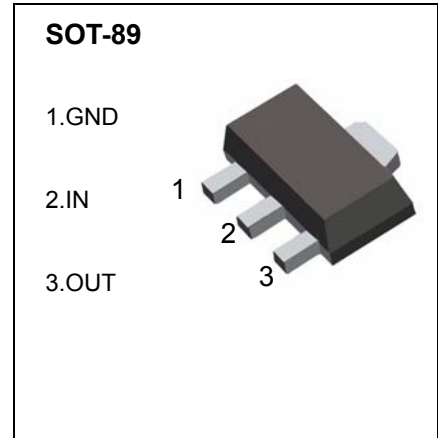
$$I_{OM}: 0.1 A$$

Output voltage

$$V_o: -9 V$$

Continuous total dissipation

$$P_D: 0.5W$$

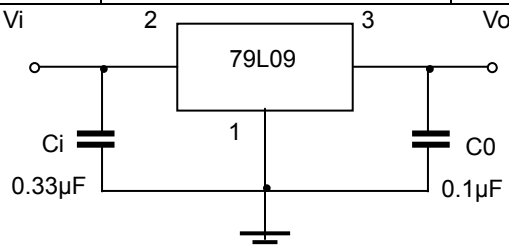


ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)			
Parameter	Symbol	Value	Units
Input Voltage	V_I	-30	V
Operating Junction Temperature Range	T_{OPR}	0—+125	°C
Storage Temperature Range	T_{STG}	-55—+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=-16V, I_o=40mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT	
Output voltage	V_o	$25^\circ C$	-8.64	-9.0	-9.36	V	
		0-125°C	-12V≤ V_i ≤-24V, $I_o=1mA-40mA$	-8.55	-9.0	-9.45	V
			$I_o=1mA-70mA$	-8.55	-9.0	-9.45	V
Load Regulation	ΔV_o	$I_o=1mA-100mA$	$25^\circ C$	19	90	mV	
		$I_o=1mA-40mA$	$25^\circ C$	11	40	mV	
Line regulation	ΔV_o	-12 V≤ V_i ≤-24V	$25^\circ C$	45	175	mV	
		-13V≤ V_i ≤-24V	$25^\circ C$	40	125	mV	
Quiescent Current	I_q		$25^\circ C$	4.1	6.0	mA	
Quiescent Current Change	ΔI_q	-13V≤ V_i ≤-24V	0-125°C		1.5	mA	
	ΔI_q	1mA≤ V_i ≤40mA	0-125°C		0.1	mA	
Output Noise Voltage	V_N	10Hz≤f≤100KHz	$25^\circ C$	58		uV	
Ripple Rejection	RR	-15V≤ V_i ≤-24V, f=120Hz	0-125°C	45		dB	
Dropout Voltage	V_d		$25^\circ C$	1.7		V	

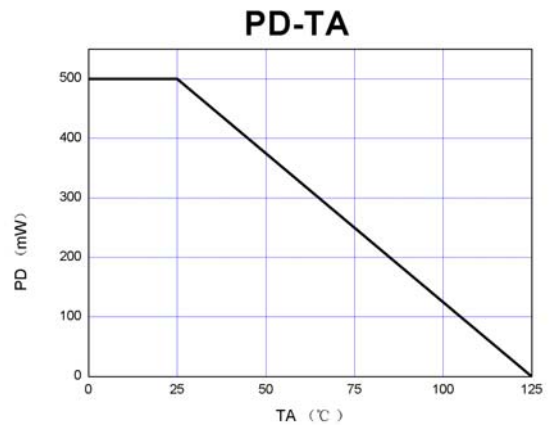
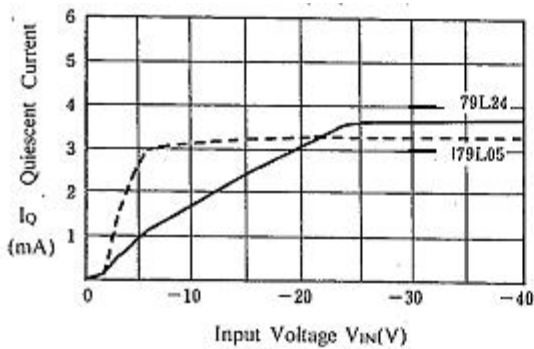
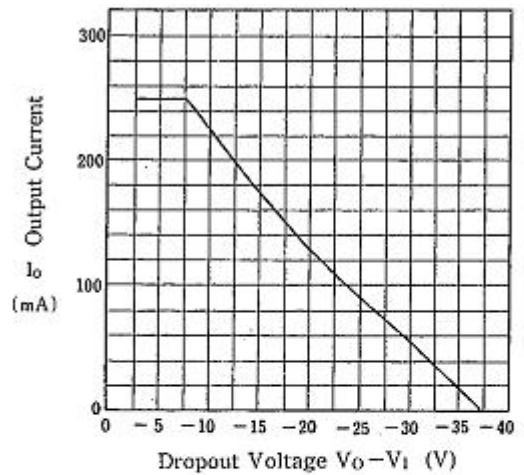
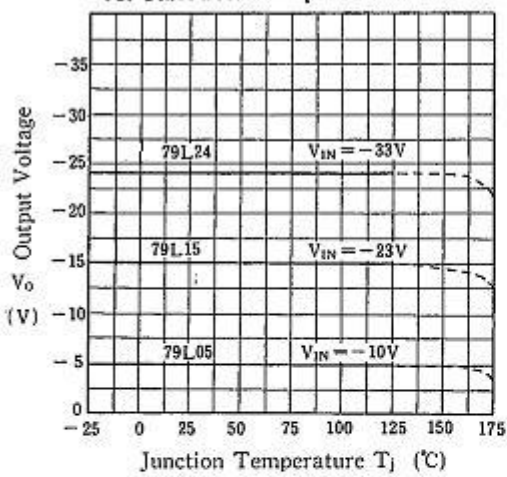
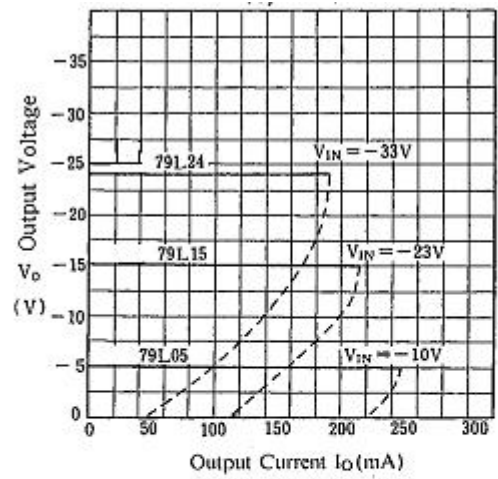
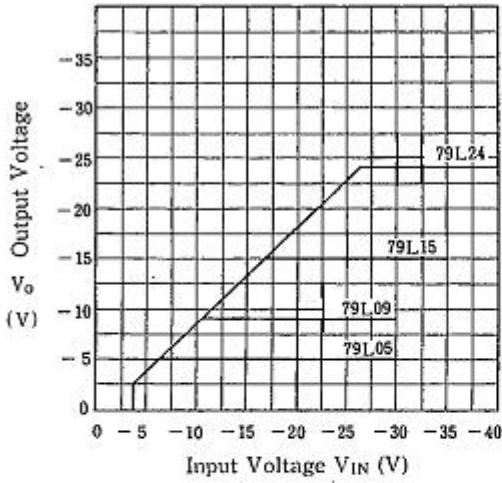
TYPICAL APPLICATION



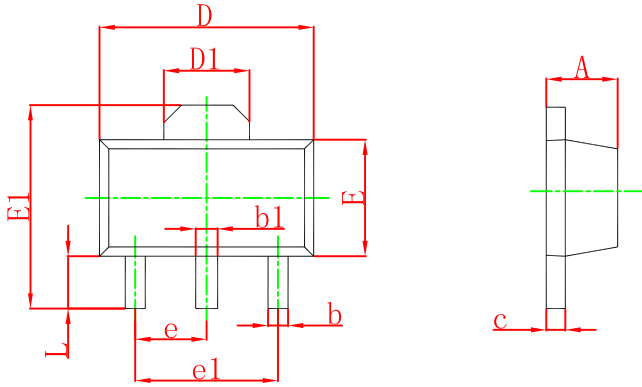
Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators

Typical Characteristics

79LXX

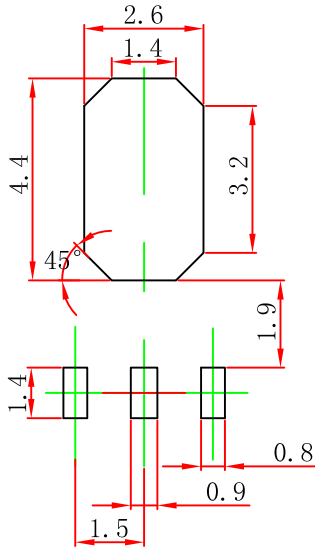


SOT-89-3L Package Outline Dimensions



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: ± 0.05 mm.
3. The pad layout is for reference purposes only.