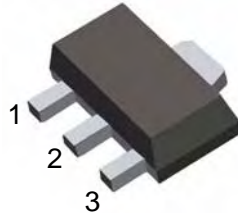




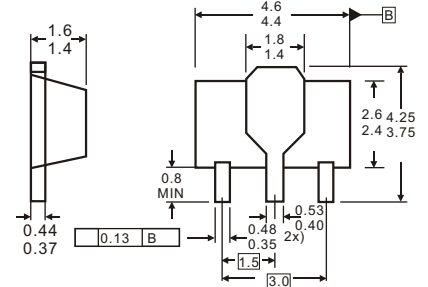
SOT-89

Features

- ✧ Maximum Output current
 $I_{OM}: 0.1\text{ A}$
- ✧ Output voltage
 $V_o: -9\text{ V}$
- ✧ Continuous total dissipation
 $P_D: 0.5\text{ W}$



1.GND
2.IN
3.OUT



Dimensions in inches and (millimeters)

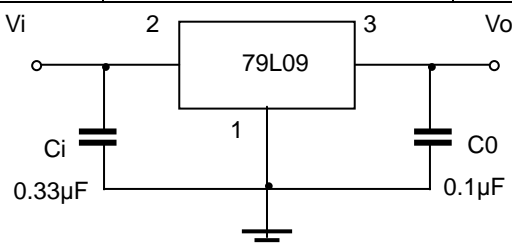
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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 ($V_i = -16\text{ V}, I_o = 40\text{ mA}, C_i = 0.33\text{ }\mu\text{F}, C_o = 0.1\text{ }\mu\text{F}$, unless otherwise specified)

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

