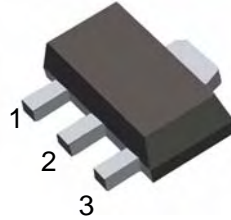




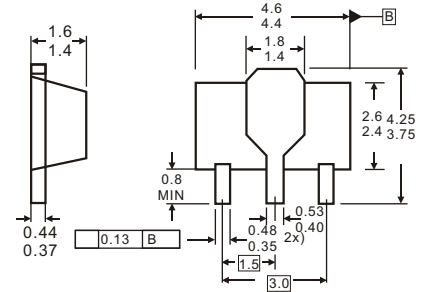
SOT-89

Features

- ◇ Maximum Output current
 $I_{OM}: 0.1 \text{ A}$
- ◇ Output voltage
 $V_O: -8 \text{ V}$
- ◇ Continuous total dissipation
 $P_D: 0.5 \text{ W}$



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



Dimensions in inches and (millimeters)

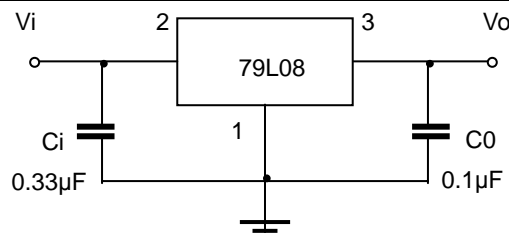
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

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 ($V_I = -14V, I_o = 40mA, C_i = 0.33\mu F, C_o = 0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	25°C	-7.7	-8.0	-8.3	V
		$-10.5V \leq V_i \leq -23V, I_o = 1mA \sim 40mA$	-7.6	-8.0	-8.4	V
		$0-125^\circ\text{C}$	-7.6	-8.0	-8.4	V
Load Regulation	ΔV_o	$I_o = 1mA \sim 100mA$		30	100	mV
		25°C		15	50	mV
Line regulation	ΔV_o	$-10.5V \leq V_i \leq -23V$		42	200	mV
		25°C		36	150	mV
Quiescent Current	I_q	25°C		4	6	mA
Quiescent Current Change	ΔI_q	$-11V \leq V_i \leq -23V$			1.5	mA
	ΔI_q	$1mA \leq I_o \leq 40mA$			0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$		54		uV
Ripple Rejection	RR	$-11V \leq V_i \leq -21V, f = 120Hz$		37	46	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

