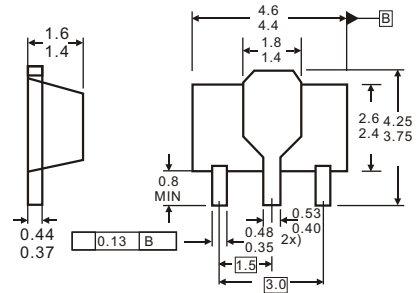


1. GND
2. IN
3. OUT

**SOT-89**


Dimensions in inches and (millimeters)

**Features**

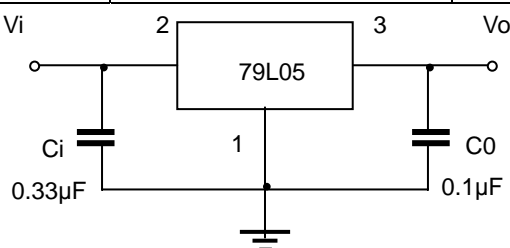
- ✧ Maximum Output current  
 $I_{OM}: 0.1 \text{ A}$
- ✧ Output voltage  
 $V_o: -5 \text{ V}$
- ✧ Continuous total dissipation  
 $P_D: 0.5 \text{ W}$

**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 ( $V_i = -10V, I_o = 40mA, C_i = 0.33\mu F, C_o = 0.1\mu F$ , unless otherwise specified)**

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT	
Output voltage	$V_o$	25°C	-4.8	-5.0	-5.2	V	
		-7V ≤ $V_i$ ≤ -20V, $I_o = 1mA \sim 40mA$	0-125°C	-4.75	-5.0	-5.25	V
		$I_o = 1mA \sim 70mA$		-4.75	-5.0	-5.25	V
Load Regulation	$\Delta V_o$	$I_o = 1mA \sim 100mA$	25°C	20	60	mV	
		$I_o = 1mA \sim 40mA$	25°C	10	30	mV	
Line regulation	$\Delta V_o$	-7V ≤ $V_i$ ≤ -20V	25°C	15	150	mV	
		-8V ≤ $V_i$ ≤ -20V	25°C	12	100	mV	
Quiescent Current	$I_q$	25°C			6	mA	
Quiescent Current Change	$\Delta I_q$	-8V ≤ $V_i$ ≤ -20V	0-125°C		1.5	mA	
	$\Delta I_q$	1mA ≤ $V_i$ ≤ 40mA	0-125°C		0.1	mA	
Output Noise Voltage	$V_N$	10Hz ≤ $f$ ≤ 100KHz	25°C	40		uV	
Ripple Rejection	RR	-8V ≤ $V_i$ ≤ -18V, $f = 120Hz$	0-125°C	41	49	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**
