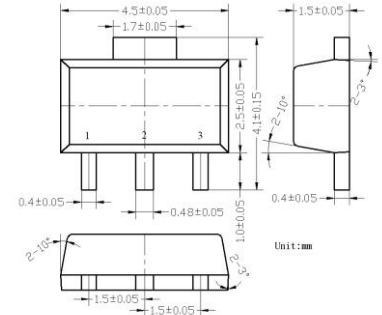


Three-terminal negative regulator

Features:

- Maximum output current
 $I_{OM}: 0.1A$
- Output voltage
 $V_O: -5V$
- Continuous total dissipation
 $P_D: 0.5W$



ABSOLUTE MAXIMUM RATINGS(operating temperature range applies unless otherwise noted)

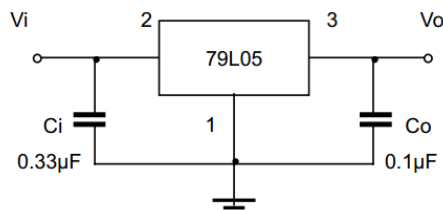
Parameter	Symbol	Value	Unit
Input voltage	V_I	-30	V
Operating Junction Temperature	T_{OPR}	0~+150	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

1. GND
2. IN
3. OUT

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE($V_I=-10V, I_O=40mA, C_i=0.33 \mu F, C_o=0.1 \mu F$, 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
		$I_o=1mA\sim 70mA$	0-125°C	-4.75	-5.0	-5.25	V
Load Regulation	ΔV_o	$I_o=1mA\sim 100mA$	25°C	20	60	mV	
		$I_o=1mA\sim 40mA$	25°C	10	30	mV	
Line Regulation	ΔV_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	ΔI_q	-8V≤ V_i ≤-20V	0-125°C		1.5	mA	
		1mA≤ V_i ≤40mA	0-125°C		0.1	mA	
Output Noise Voltage	V_N	10Hz≤ f ≤100KHz	25°C	40		μV	
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.

■ Main Characteristics

