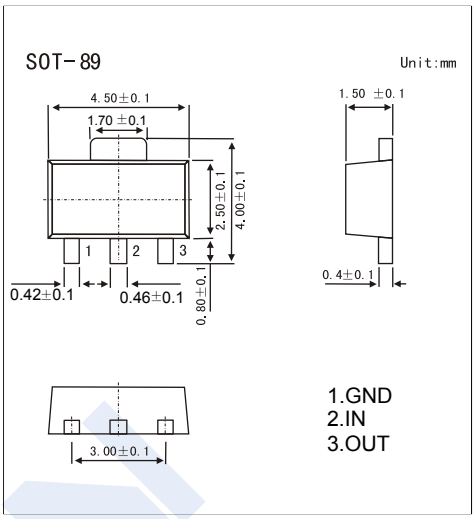
Three-Terminal Negative Voltage Regulator

LM79L05



■ Features

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

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Input Voltage	V_i	-30	V
Operating Junction Temperature Range	T_{OPR}	-55 to +125	℃
Storage Temperature Range	T_{STG}	-55 to +150	℃

■ Electrical Characteristics (Vi=-10V,Io=40mA,0℃<Tj<125℃,Ci=0.33μF,Co=0.1μF,unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	V_O	Tj=25℃	-4.8	-5.0	-5.2	V
		-7V≤V_I≤-20V, Io=1mA-40mA	-4.75	-5.0	-5.25	V
		Io=1mA-70mA	-4.75	-5.0	-5.25	V
Load regulation	$\triangle V_O$	Tj=25℃, Io=1mA-100mA		11	60	mV
		Tj=25℃, Io=1mA-40mA		5.0	30	mV
Line regulation	$\triangle V_O$	-7V≤V_I≤-20V, Tj=25℃		32	150	mV
		-8V≤V_I≤-20V, Tj=25℃		26	100	mV
Quiescent current	Iq	Tj=25℃		3.8	6	mA
Quiescent current change	△Iq	0℃<Tj<125℃, -8V≤V_I≤-20V			1.5	mA
	△Iq	0℃<Tj<125℃,1mA≤Io≤40mA			0.1	mA
Output noise voltage	V_N	10Hz≤f≤100KHz,Tj=25℃		42		uV
Ripple rejection	RR	-8V≤V_I≤-18V,f=120Hz	41	49		dB
Dropout voltage	Vd	Tj=25℃,		1.7		V

■ Typical Application