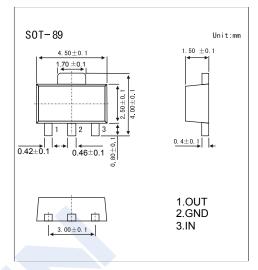
Three-Terminal Voltage Regulator 78L05

■ Features

- Maximum output current:Ioм=0.1A.
- Output voltage:Vo=5V.
- Continuous total dissipation:PD: 0.5 W



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Input Voltage	Vı	30	V
Operating junction temperature range	Topr	-55 to +125	$^{\circ}\mathbb{C}$
Storage Temperature Range	Тѕтс	-55 to +150	$^{\circ}\mathbb{C}$

■ Electrical Characteristics (VI=10V,Io=40mA,0°C<Tj<125°C,C1=0.33 μ F,Co=0.1 μ F,unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Output voltage		Tj=25℃	4.8	5.0	5.2	V
	Vo	7V≤Vı≤20V, Io=1mA-40mA	4.75	5.0	5.25	V
		lo=1mA-70mA	4.75	5.0	5.25	V
Load regulation	△Vo	Tj=25℃, lo=1mA-100mA		15	60	mV
	△ 🗸 🗸	Tj=25℃, lo=1mA-40mA		8	30	mV
Line regulation	∧Vo	7V≲V।≤20V, Tj=25°C		32	150	mV
	△ ∨ ∪	8V≶Vı≶20V, Tj=25℃		26	100	mV
Quiescent current	Iq	Tj=25℃		3.8	6	mA
Quiescent current change	△lq	0℃ <tj<125℃,8v≪v।≪20v< td=""><td></td><td></td><td>1.5</td><td>mA</td></tj<125℃,8v≪v।≪20v<>			1.5	mA
	△lq	0℃ <tj<125℃,1ma≤lo≤40ma< td=""><td></td><td></td><td>0.1</td><td>mA</td></tj<125℃,1ma≤lo≤40ma<>			0.1	mA
Output noise voltage	Vn	10Hz≤f≤100KHz		42		uV
Ripple rejection	RR	8V≤Vı≤20V,f=120Hz,Tj=25°C	41	49		dB
Dropout voltage	Vd	Tj=25℃		1.7		V

■ Typical application.

