# SMD Type

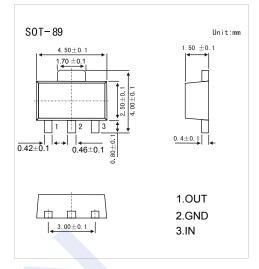


# **Three-Terminal Positive Voltage Regulator**

### LM78L05

Features

- Maximum Output current Io: 0.1A
- Output Voltage Vo: 5V
- Continuous Total Dissipation PD: 0.5W (Ta = 25°C)



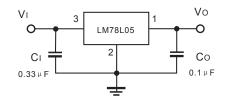
Absolute Maximum Ratings (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Rating	Unit
Input Voltage	Vi	30	V
Operating Junction Temperature Range	Topr	-55 $\sim$ +125	°C
Storage Temperature Range	Tstg	-55 $\sim$ +150	°C

#### ■ Electrical Characteristics (VI=10V, IO=40mA,CI=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	TJ = 0~125℃, 7V≪VI≪20V, Io=1mA~40mA	4.75	5.0	5.25	V	
		TJ = 0∼125℃, Io=1mA~70mA	4.75	5.0	5.25	V	
Load Regulation	∆Vo	TJ = 25℃, Io=1mA~100mA		15	60	mV	
		TJ = 25℃, Io=1mA~40mA		8	30	mV	
Line Regulation	∆Vo	7V≪VI≪20V		32	150	mV	
		TJ = 25℃, 8V≪VI≪20V		26	100	mV	
Quiescent Current	IQ	TJ = 25℃		3.8	6	mA	
Quiescent current Change	Åle	TJ = 0∼125℃, 8V≪VI≪20V			1.5	mA	
	∆lq	TJ = 0∼125℃, 1mA≤lo≤40mA			0.1		
Output Noise Voltage	VN	TJ = 25℃, 10Hz≪f≪100KHz		42		μ V	
Ripple Rejection	RR	TJ = 0∼125℃, 8V≪VI≪20V, f = 120Hz	41	49		dB	
Dropout Voltage	Vd	TJ = 25℃		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.

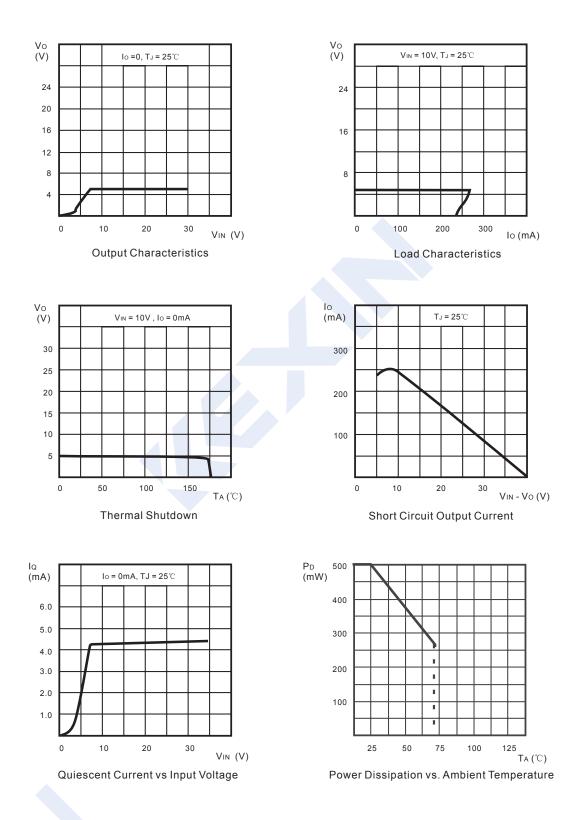


# SMD Type

IC

LM78L05

#### Typical Characteristics





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