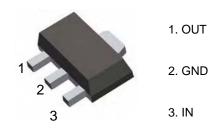
Three-terminal positive voltage regulator

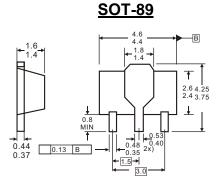




Features

- ♦ Maximum Output current I_{O:} 0.1 A
- ♦ Output voltage V_O: 5 V
- Continuous total dissipation

 P_D : 0.5 W ($T_a = 25 ^{\circ}C$)



Dimensions in inches and (millimeters)

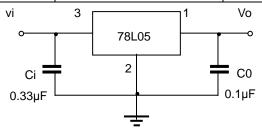
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	VI	30	V
Operating Junction Temperature Range	T _{OPR}	0~+125	$^{\circ}$
Storage Temperature Range	T _{STG}	-55~+150	$^{\circ}$

ELECTRICAL CHARACTERISTICS (V_i=10V,lo=40mA,Ci=0.33μF,Co=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions		MIN	TYP	MAX	UNIT
			25℃	4.8	5.0	5.2	V
Output voltage Vo	Vo	7V≤Vi≤20V, Io=1mA~40mA	0-125℃	4.75	5.0	5.25	V
		Io=1mA~70mA		4.75	5.0	5.25	V
Load Regulation ΔVo	A)/o	lo=1mA~100mA	25℃		15	60	mV
	Δνο	lo=1mA~40mA	25℃		8	30	mV
Line regulation Δ	۸)/-	7V≤Vi _I ≤20V			32	150	mV
	ΔVο	8V≤Vi≤20V	25℃		26	100	mV
Quiescent Current	Iq		25℃		3.8	6	mA
Quiescent Current Change Δlq Δlq	Δlq	8V≤Vi≤20V	0-125℃			1.5	mA
	Δlq	1mA≤V₁≤40mA	0-125℃			0.1	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz	25℃		42		uV
Ripple Rejection	RR	8V≤Vi≤20V,f=120Hz	0-125℃	41	49		dB
Dropout Voltage	Vd		25℃		1.7		V

TYPICAL APPLICATION



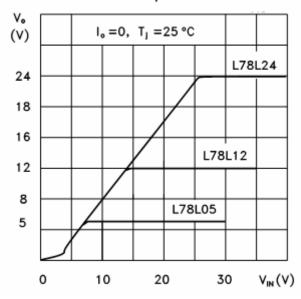
Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as Possible to the regulators.

Three-terminal positive voltage regulator

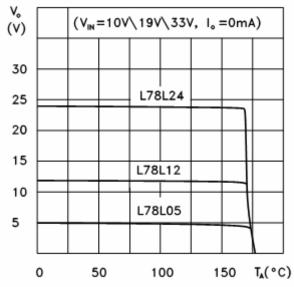


Typical Characteristics

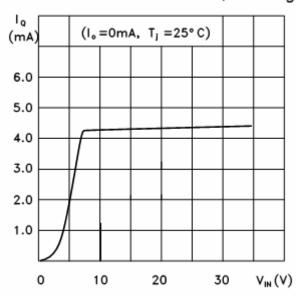
L78L05/12/24 Output Characteristics



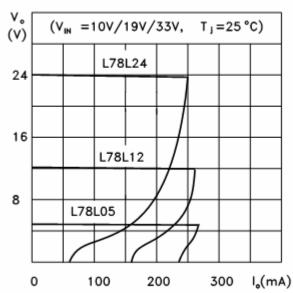
L78L05/12/24 Thermal Shutdown



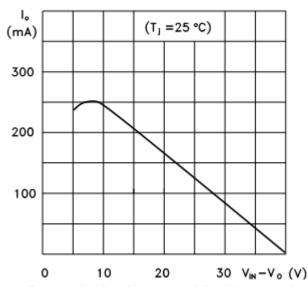
L78L05 Quiescent Current vs Input Voltage



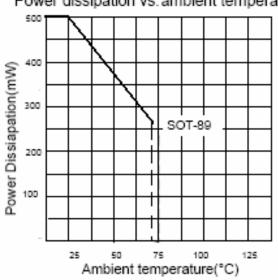
L78L05/12/24 Load Characteristics



L78L00 Series Short Circuit Output Current



Power dissipation vs. ambient temperature



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