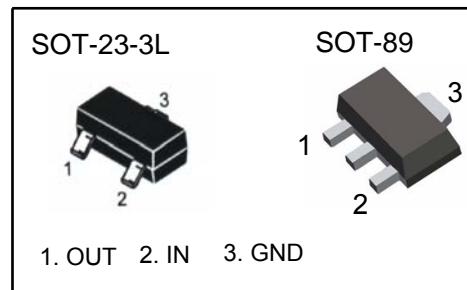


Three-terminal positive voltage regulator

Maximum output current I_O : 0.1 A
 Output voltage V_O : 5 V
 Continuous total dissipation
 P_D : SOT-23-3L 0.35 W ($T_a = 25^\circ C$)
 SOT-89 0.5 W ($T_a = 25^\circ C$)



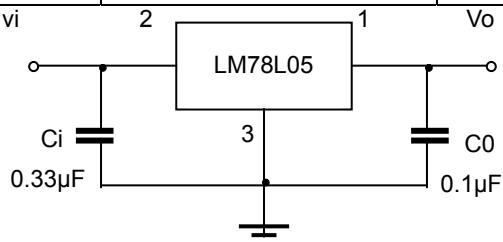
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_I	30	V
Operating Junction Temperature Range	T_{OPR}	0~+125	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE (Vi=10V, Io=40mA, Ci=0.33μF, Co=0.1μF, 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≤Vi≤20V, Io=1mA~40mA	0-125°C	4.75	5.0	5.25	V
		Io=1mA~70mA		4.75	5.0	5.25	V
Load Regulation	ΔV_o	Io=1mA~100mA	25°C		15	60	mV
		Io=1mA~40mA	25°C		8	30	mV
Line regulation	ΔV_o	7V≤Vi≤20V			32	150	mV
		8V≤Vi≤20V	25°C		26	100	mV
Quiescent Current	I_q		25°C		3.8	6	mA
Quiescent Current Change	ΔI_q	8V≤Vi≤20V	0-125°C			1.5	mA
	ΔI_q	1mA≤Vi≤40mA	0-125°C			0.1	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25°C		42		uV
Ripple Rejection	RR	8V≤Vi≤20V, 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.

Typical Characteristics

