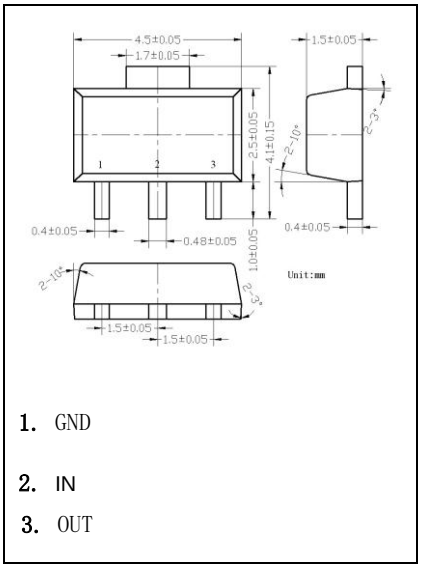
SHENZHEN LONG JING MICRO-ELECTRONICS CO., LTD.

SOT-89 Encapsulate Three Terminal Voltage Regulators

79L12 Three-terminal negative regulator



1. GND
2. IN
3. OUT

Features:

- Maximum output current
  I_{OM}: 0.1A
- Output voltage
  V_O: -12V
- Continuous total dissipation
  P_D: 0.5W

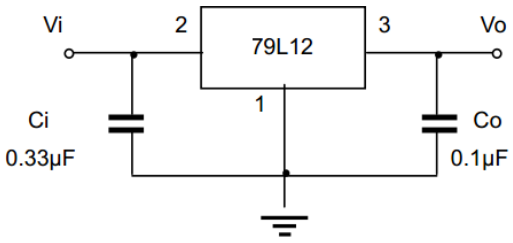
ABSOLUTE MAXIMUM RATINGS(operating temperature range applies unless otherwise noted)

Parameter	Symbl	Value	Unit
Input voltage	V_I	-35	V
Operating Junction Temperature	T_{OPR}	-40-+125	℃
Storage Temperature Range	T_{STG}	-55-+150	℃

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE(V_I=-19V,I_O=40mA,Ci=0.33μF, C_O=0.1μF ,unless otherwise specified)

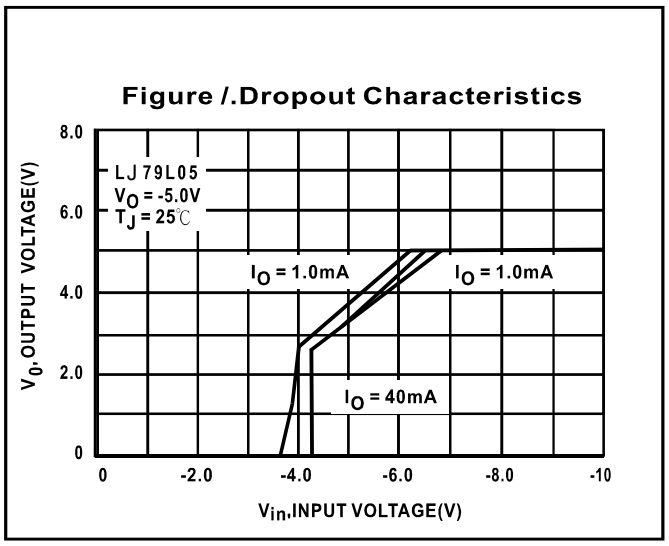
Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output Voltage	Vo		25℃	-11.5	-12	-12.5	V
		-14.5V≤V_I≤-27V, Io=1mA~40mA	0-125℃	-11.4	-12	-12.6	V
		Io=1mA~70mA		-11.4	-12	-12.6	V
Load Regulation	ΔVo	Io=1mA~100mA	25℃		24	100	mV
		Io=1mA~40mA	25℃		15	50	mV
Line Regulation	ΔVo	-14.5V≤V_I≤-27V	25℃		50	250	mV
		-16V≤V_I≤-27V	25℃		40	200	mV
Quiescent Current	Iq		25℃			6.5	mA
Quiescent Current Change	ΔIq	-16V≤V_I≤-27V	0-125℃			1.5	mA
	ΔIq	1mA≤I_O≤40mA	0-125℃			0.1	mA
Output Noise Voltage	V_N	10Hz≤f≤100KHz	25℃		80		μV
Ripple Rejection	RR	-15V≤V_I≤-25V,f=120Hz	0-125℃	37	42		dB
Dropout Voltage	Vd		25℃		1.7		V

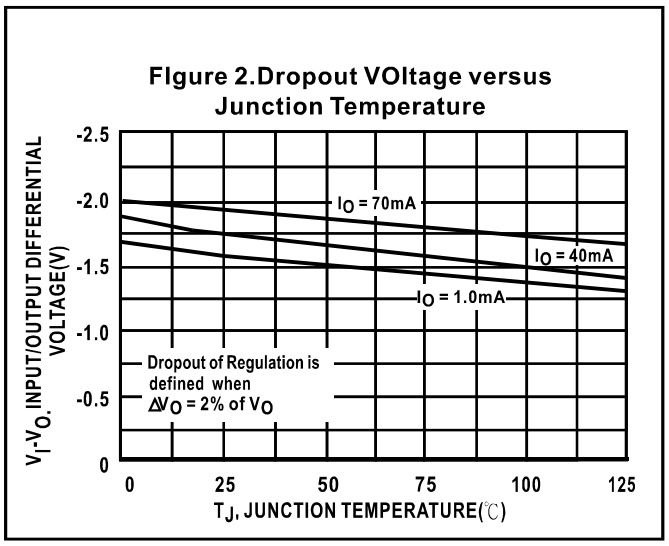
TYPICAL APPLICATION

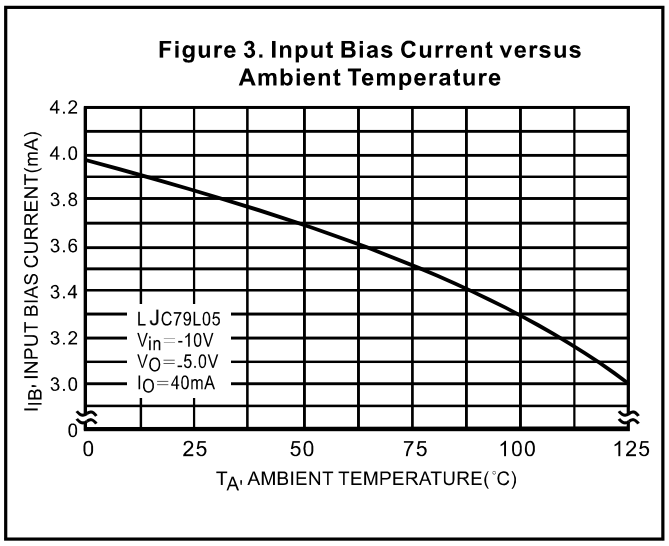


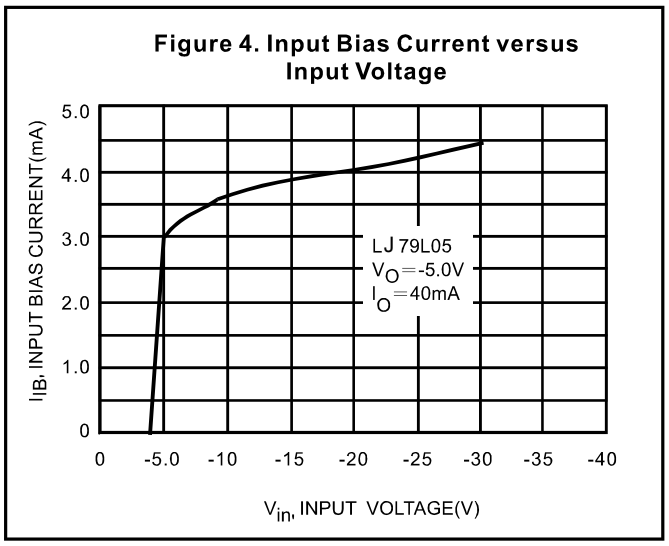
Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

Typical Characteristics









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