

# 79L05T

Rev.H Oct.-2023

## 描述 / Descriptions

SOT-89 塑封封装电压调整器。Voltage Regulator in a SOT-89 Plastic Package.

## 特征 / Features

三端稳压调整器，输出电流高达 100mA,内设过热保护和短路限制，无卤产品。

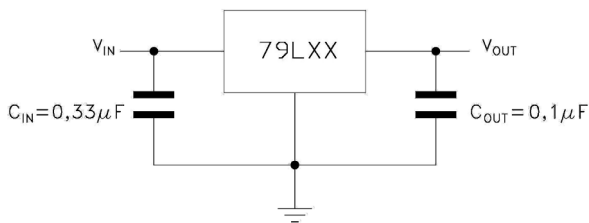
3-Terminal regulators, output current up to 100 mA, internal thermal overload protection and short-circuit limiting, HF Product.

## 用途 / Applications

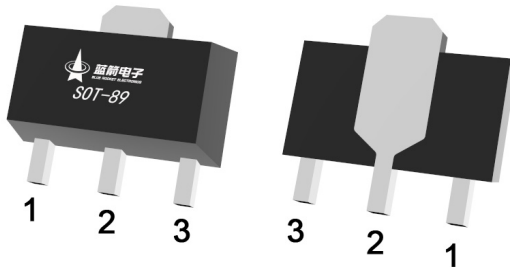
电压调整器。

Voltage Regulator.

## 内部等效电路/应用电路 / Equivalent Circuit or Application Circuit



## 引脚排列 / Pinning



PIN 1 : GND    PIN 2 : IN    PIN3 : OUT

## 印章代码 / Marking

Marking	HN05 *
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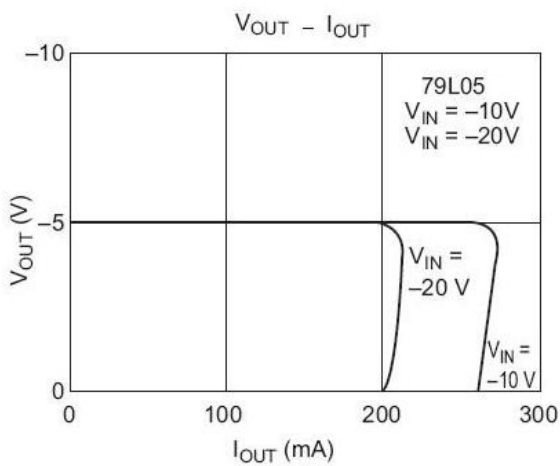
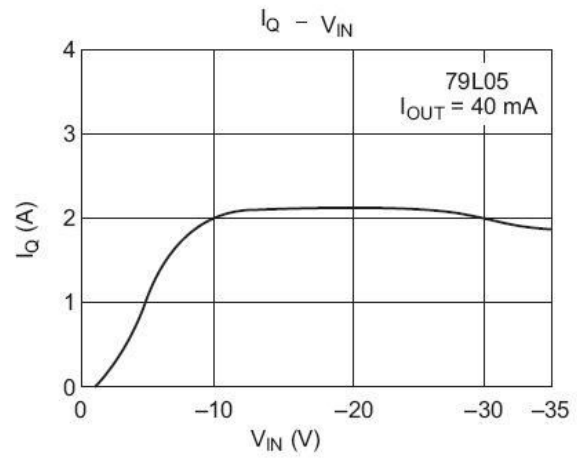
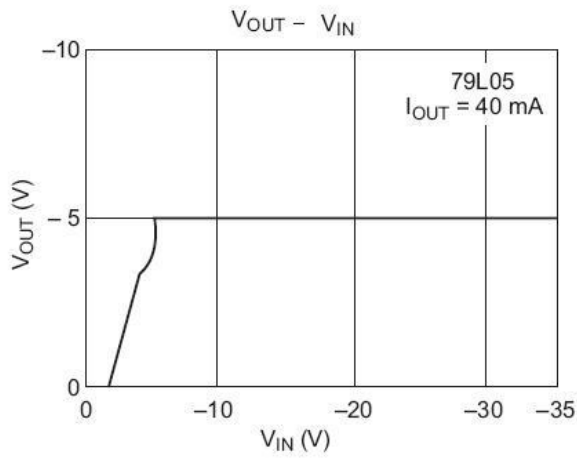
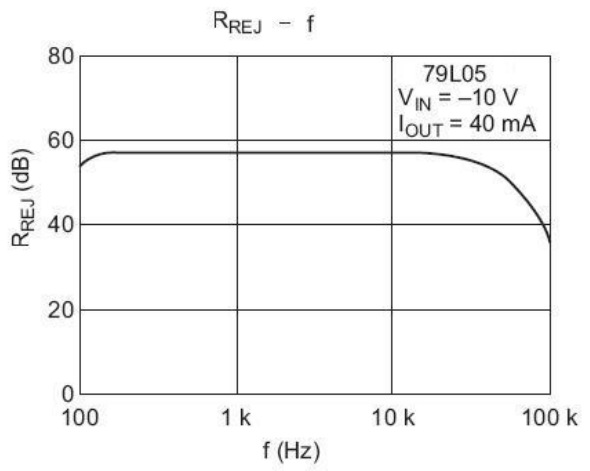
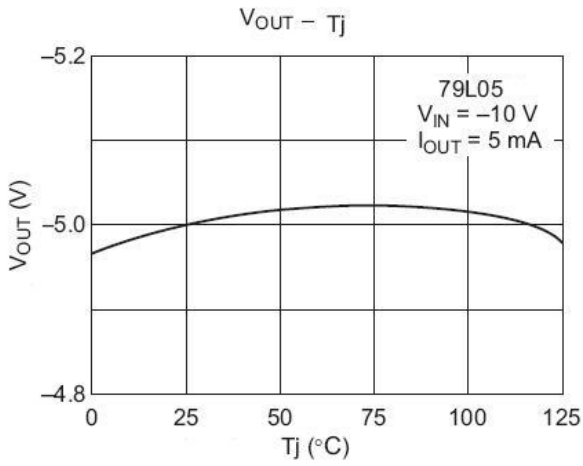
**极限参数 / Absolute Maximum Ratings(Ta=25°C)**

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Input voltage	V <sub>I</sub>	-35	V
Output current	I <sub>O</sub>	100	mA
Operating virtual Junction temperature	T <sub>J</sub>	0~125	°C
Power Dissipation	P <sub>D</sub>	500	mW
Storage temperature range	T <sub>stg</sub>	-65~150	°C

**电性能参数 / Electrical Characteristics(Ta=25°C)**

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Output voltage	V <sub>O</sub>	I <sub>O</sub> =40mA      T <sub>J</sub> =25°C	-4.80	-5.0	-5.2	V
		-7.5V≤V <sub>in</sub> ≤-20V 5mA≤I <sub>out</sub> ≤100mA	-4.75	-5.0	-5.25	
Line Regulation	REG <sub>line</sub>	-7.5V≤V <sub>in</sub> ≤-20V      I <sub>O</sub> =40mA T <sub>J</sub> =25°C		50	150	mV
Load Regulation	REG <sub>load</sub>	5mA≤I <sub>out</sub> ≤100mA T <sub>J</sub> =25°C		20	60	
		5mA≤I <sub>out</sub> ≤40mA T <sub>J</sub> =25°C		10	30	
Bias current	I <sub>Q</sub>	I <sub>out</sub> =0      T <sub>J</sub> =25°C		3	6	mA
Bias current change	ΔI <sub>Q</sub>	-8V≤V <sub>in</sub> ≤-20V			1.5	
		1mA≤I <sub>out</sub> ≤40mA			0.1	
Output noise voltage	V <sub>N</sub>	10Hz≤f≤100KHz      T <sub>J</sub> =25°C		40		μV
Ripple rejection	RR	-8V≤V <sub>in</sub> ≤-18V      f=120Hz,	41	49		dB
Dropout voltage	V <sub>D</sub>	T <sub>J</sub> =25°C		1.7		V

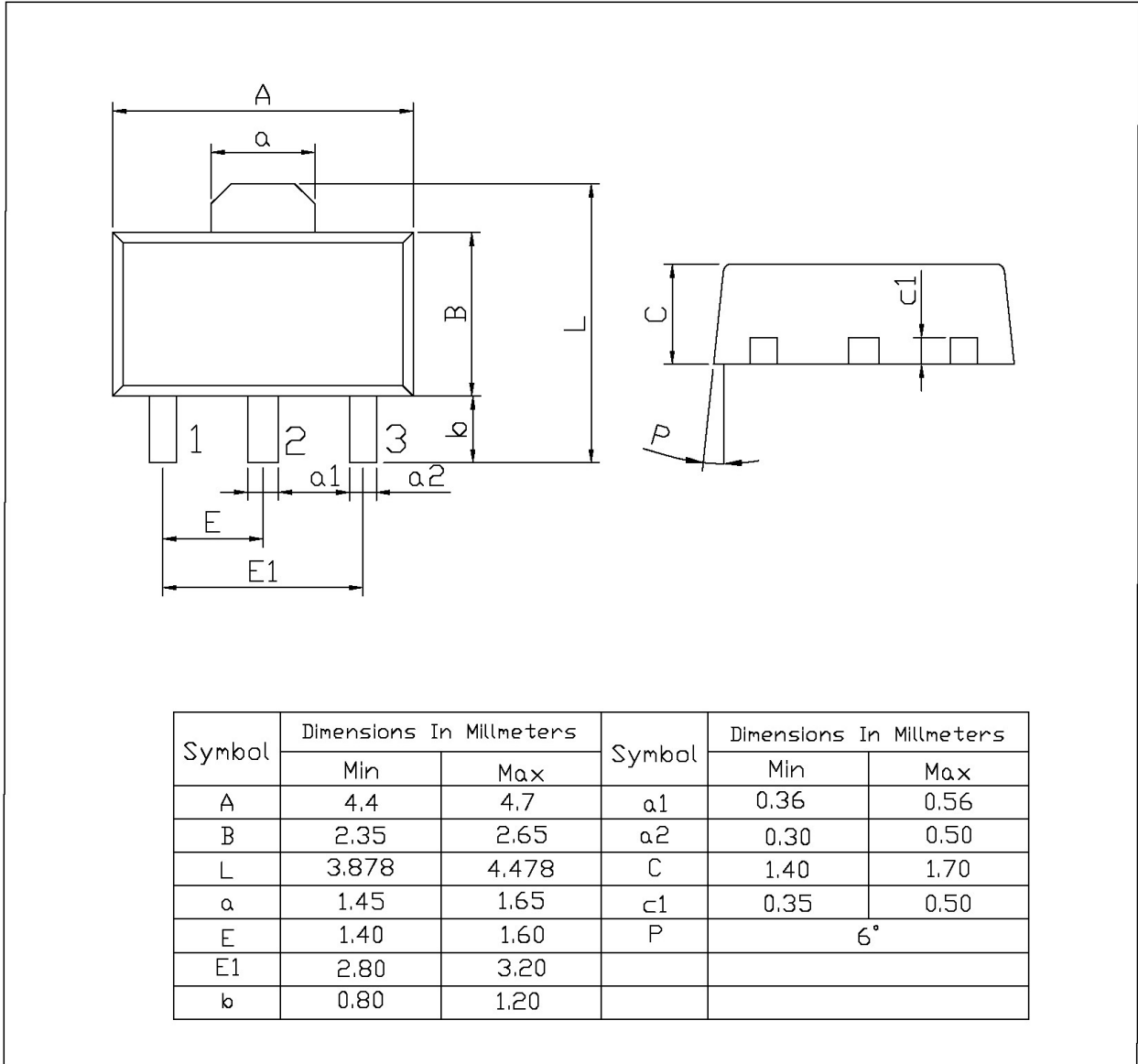
**电参数曲线图 / Electrical Characteristic Curve**



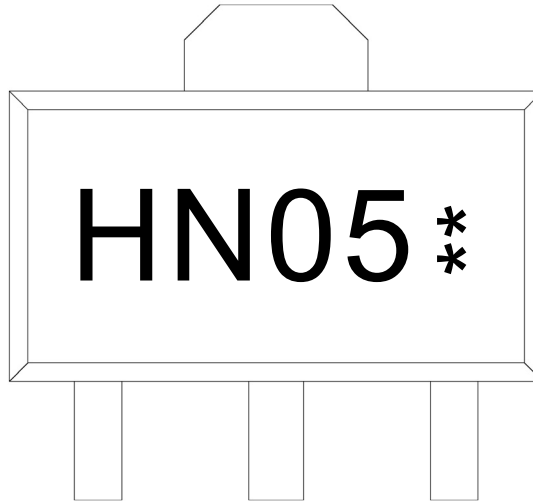
外形尺寸图 / Package Dimensions

SOT-89

单位: mm



印章说明 / Marking Instructions



说明：

H： 为公司代码

N05： 为型号代码

\*\*： 为生产批号代码，随生产批号变化

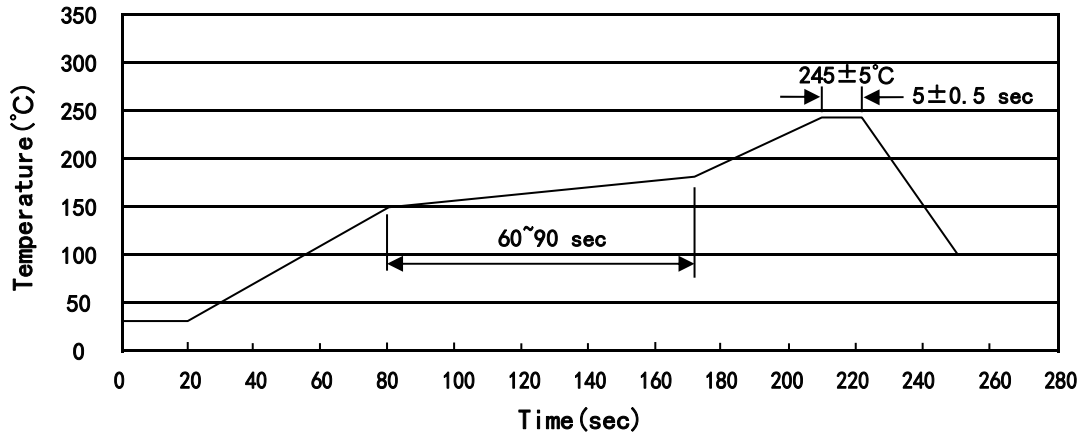
Note:

H: Company Code

N05: Product Type Code

\*\* : Lot No. Code, code change with Lot No

回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)



说明：

- 1、预热温度 150~180°C，时间 60~90sec;
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2~10°C/sec.

Note:

- 1.Preheating:150~180°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

包装规格 / Packaging SPEC.

卷盘包装 / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT-89	1,000	7	7,000	6	42,000	7" ×12	180×120×180	390×385×205

使用说明 / Notices