

描述 / Descriptions

SOP-8 塑封封装电压调整器。
Voltage Regulator in a SOP-8 Plastic Package.

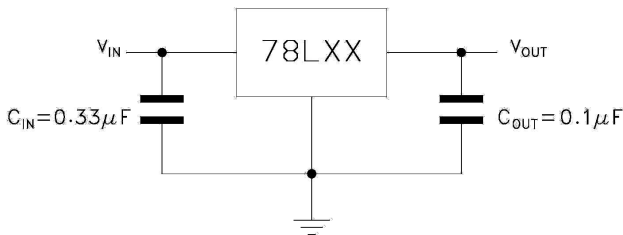
特征 / Features

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.

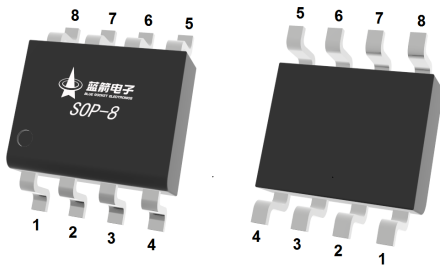
用途 / Applications

电压调整器。
Voltage Regulator.

内部等效电路 / Equivalent Circuit



引脚排列 / Pinning



PIN 1 : V _{OUT}	PIN 2 : GND	PIN 3 : GND	PIN 4 : NC
PIN 5 : NC	PIN 6 : GND	PIN 7 : GND	PIN 8 : V _{IN}

印章代码 / Marking

见印章说明。
See Marking Instructions.

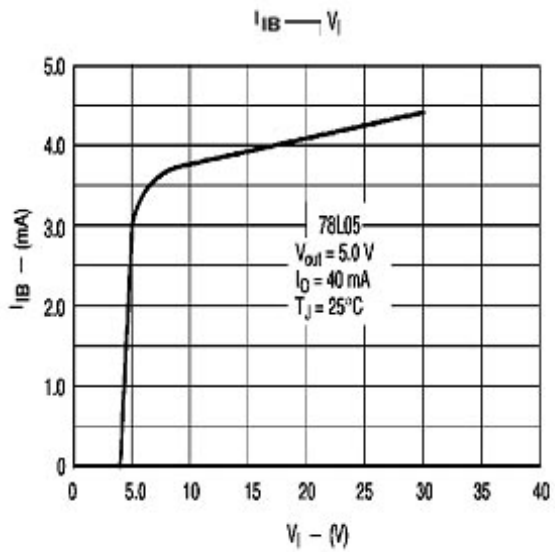
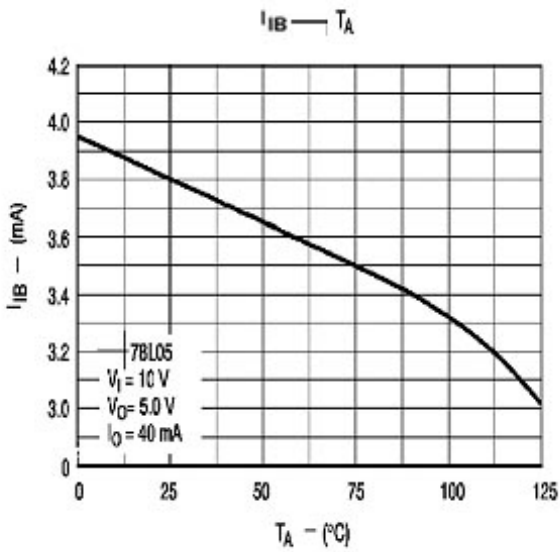
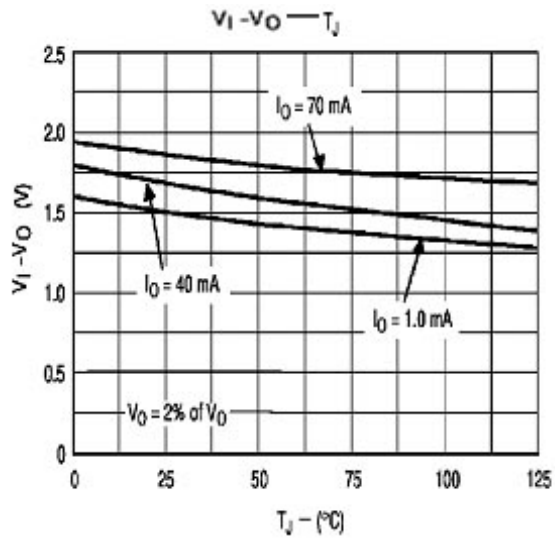
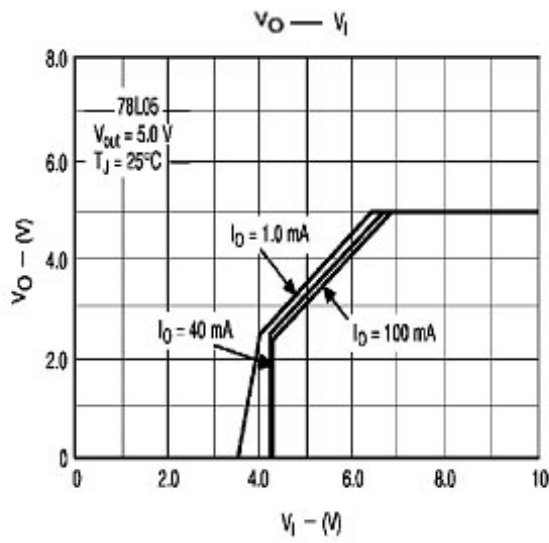
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Input voltage	V _I	30	V
Output current	I _O	100	mA
Operating Temperature Range	T _{OPR}	-40~125	°C
Power Dissipation	P _D	Internally Limited	mW
Storage temperature range	T _{stg}	-65~150	°C
Thermal resistance junction-ambient	R _{thJA}	55	°C/W
Thermal resistance junction-case	R _{thJC}	20	°C/W

电性能参数 / Electrical Characteristics(Ta=25°C , Vi=10V,Io=40mA , unless otherwise specified)

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 _O	I _O =40mA T _J =25°C	4.80	5.0	5.2	V
		I _O =1mA to 40mA V _I =7V to 20V	4.75	5.0	5.25	V
		I _O =1mA to 70mA V _I =10V	4.75	5.0	5.25	V
Input regulation	ΔV _O	V _I =7V to 20V T _J =25°C		32	150	mV
		V _I =8V to 20V T _J =25°C		26	100	mV
Output regulation	ΔV _O	I _O =1mA to 100mA T _J =25°C		15	60	mV
		I _O =1mA to 40 mA T _J =25°C		8	30	mV
Ripple rejection	RR	V _I =8V to 18V f=120Hz T _J =25°C	41	49		dB
Output noise voltage	V _N	f=10Hz~100KHz T _J =25°C		42		μV
Dropout voltage	V _D	T _J =25°C		1.7		V
Bias current	I _Q	T _J =25°C		3.8	6	mA
		T _J =125°C			5.5	mA
Bias current change	ΔI _Q	V _I =8V to 20V			1.5	mA
		I _O =1mA to 40mA			0.1	mA

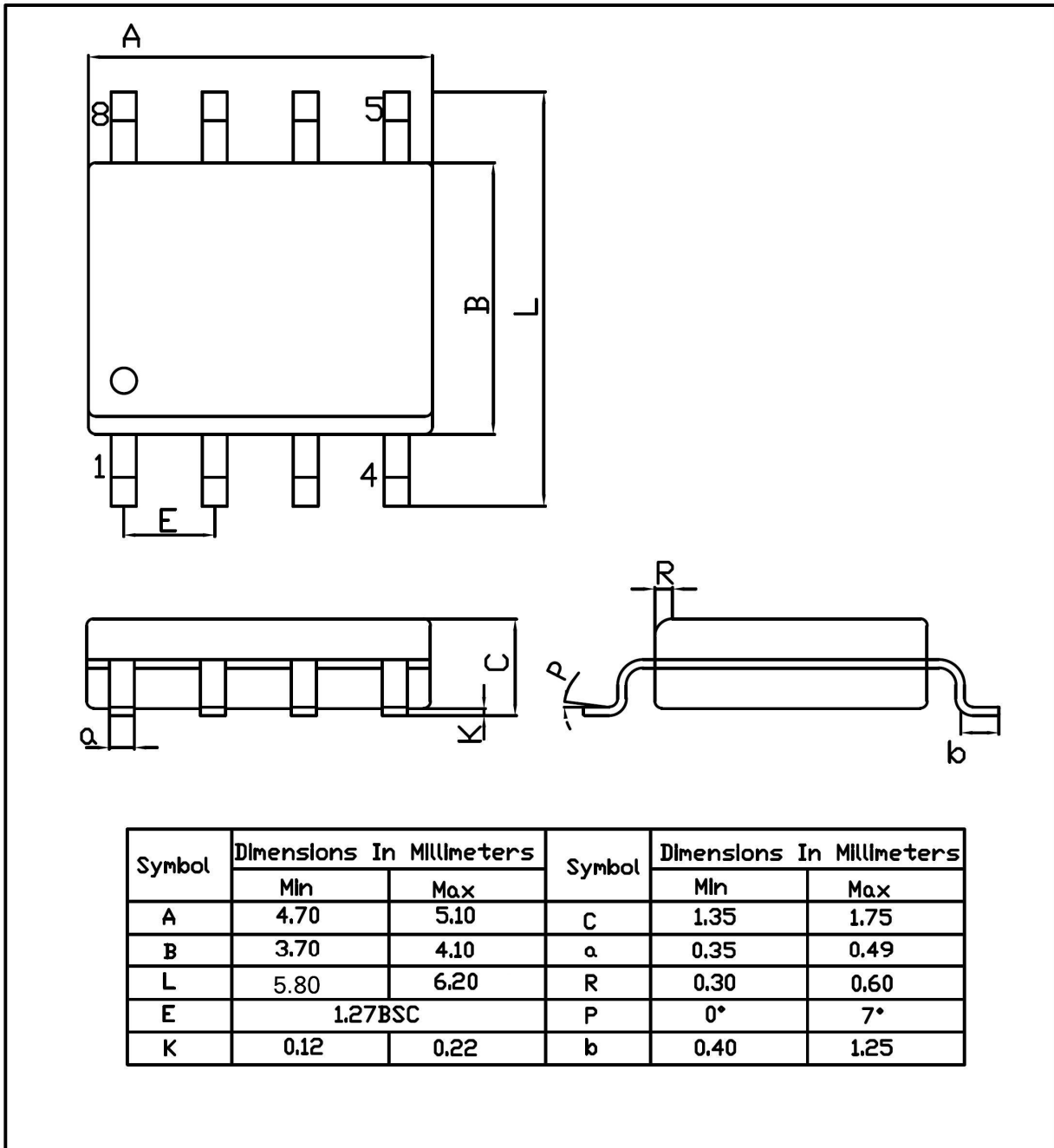
电参数曲线图 / Electrical Characteristic Curve



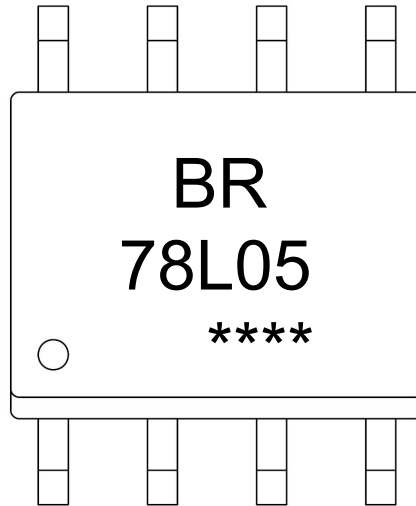
外形尺寸图 / Package Dimensions

SOP-8

Unit:mm



印章说明 / Marking Instructions



说明：

BR： 为公司代码

78L05： 为型号代码

****： 为生产批号代码，随生产批号变化

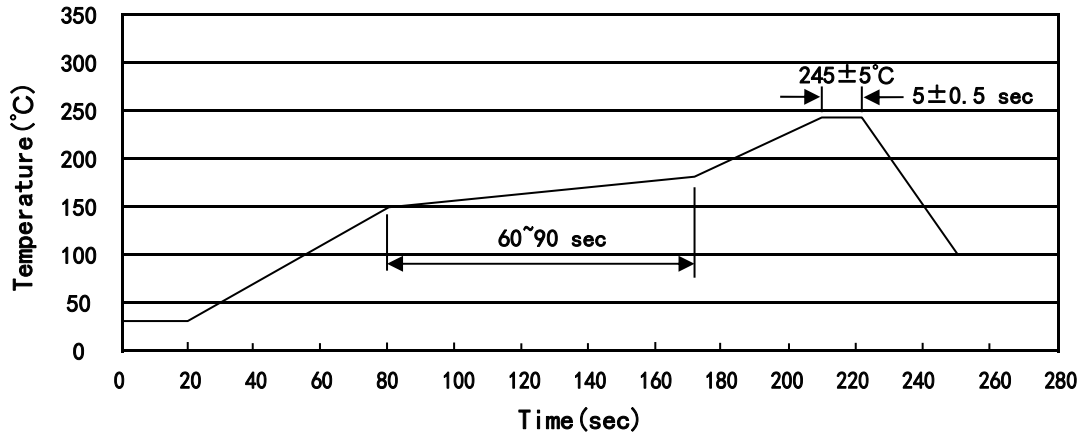
Note:

BR: Company Code

78L05: 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 ³)		
	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
SOP/ESOP-8	4,000	2	8,000	6	48,000	13" ×12	360×360×50	380×335×366

使用说明 / Notices