

描述 / Descriptions

SOP-8 塑封封装 双通道放大器。Dual Operational Amplifiers in a SOP-8 Plastic Package.

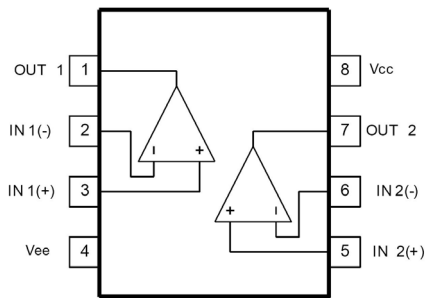
特征 / Features

内部单位增益频率补偿, 有较大的直流电压增益: 100dB, 工作电压范围宽 ($V_{CC}=3V \sim 36V$), 输入共模电压范围接近地电平, 输出电压范围大: 从 $0 \sim V_{CC}-1.5V$, 适用于电池工作时的电力消耗。
Internally frequency compensated for unity gain, Large DC voltage gain: 100dB, Wide operating supply range ($V_{CC}=3V \sim 36V$), Input common mode voltage includes ground, Large output voltage swing: From 0 to $V_{CC}-1.5V$, Power drain suitable for battery operation.

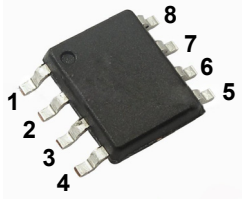
用途 / Applications

适用于传感器放大器, 直流增益模块和所有传统的运算放大器电路。
Application areas include transducer amplifier, DC gain blocks and all the conventional OP amp circuits.

内部等效电路 / Equivalent Circuit



引脚排列 / Pinning



PIN 见内部等效电路 / PIN See Equivalent Circuit.

印章代码 / Marking

见印章说明 / See Marking Instructions

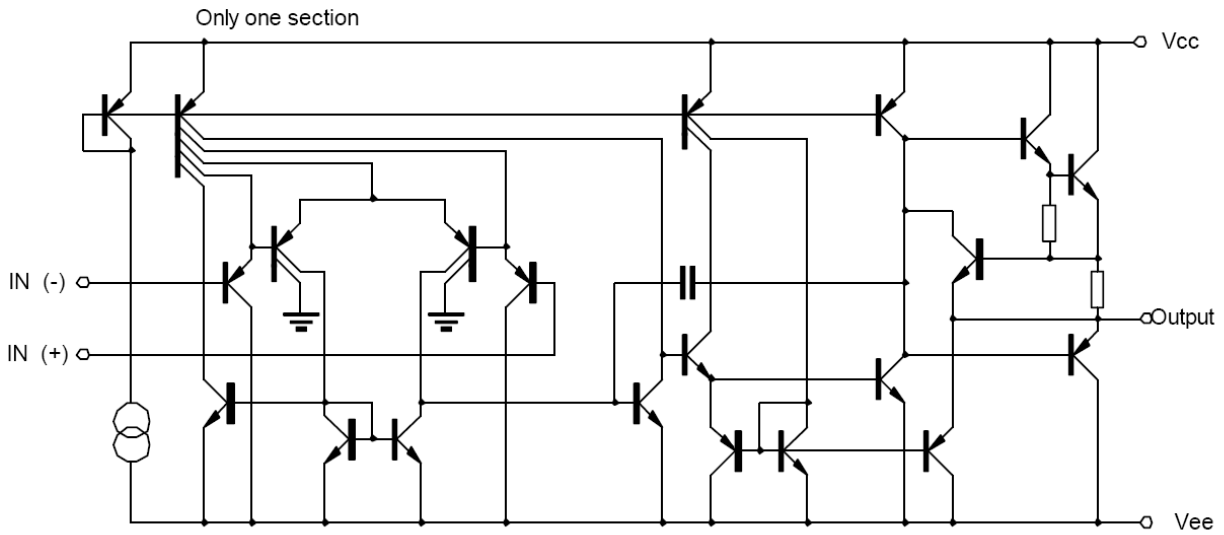
极限参数 / Absolute Maximum Ratings(Ta=25°C)

参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Supply Voltage	V _{CC}	±18	V
Differential input voltage	V _{I(DIFF)}	36	V
Input Voltage	V _I	-0.3~36	V
Power Dissipation	P _d	570	mW
Operating Temperature	T _{opr}	0 ~ 70	°C
Storage Temperature	T _{stg}	-65 ~ 150	°C

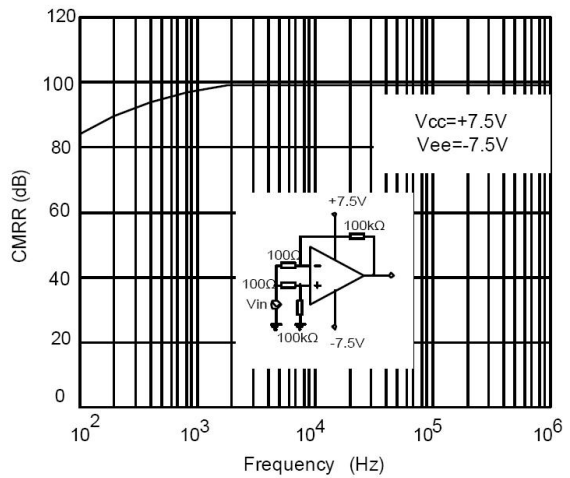
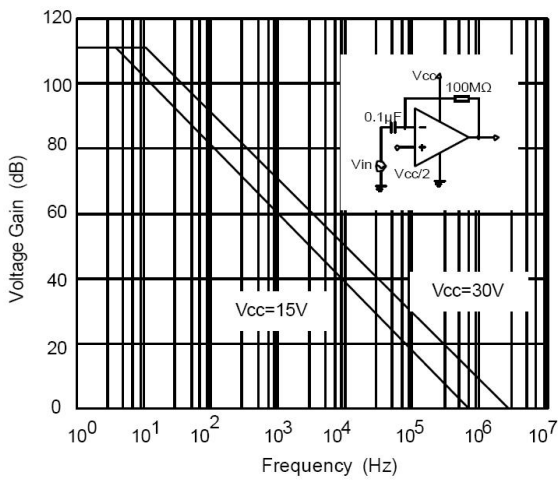
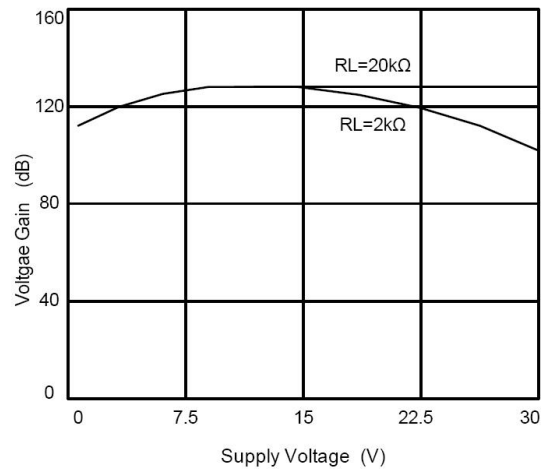
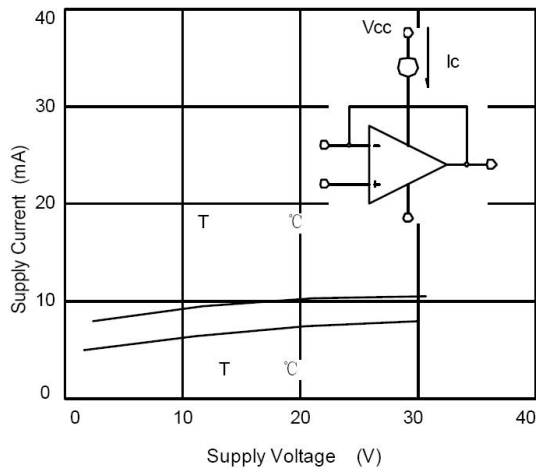
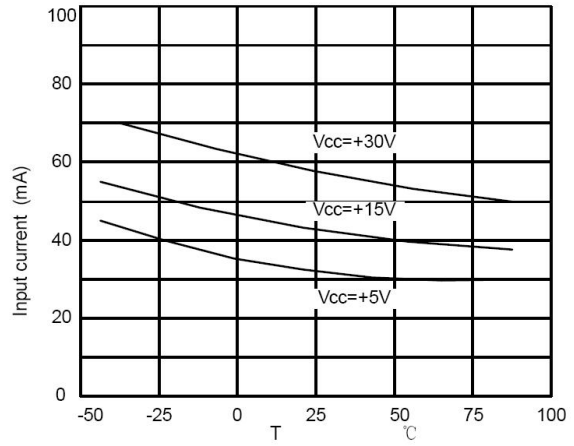
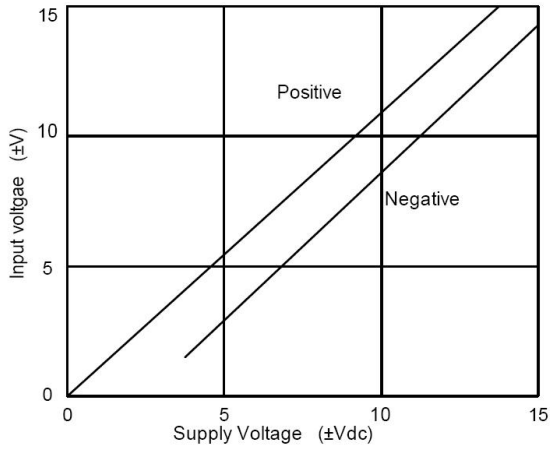
电性能参数 / Electrical Characteristics(Ta=25°C)

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
Input offset voltage	V _{IO}	V _{CM} =0 to V _{CC} -1.5 V _{o(p)} =1.4V R _s =0		2.0	3.0	mV
Input offset current	I _{IO}			2.0	30	nA
Input Bias current	I _b			45	100	nA
Input Commonmode voltage range	V _{I(R)}	V _{CC} =30V	0	V _{CC} -1.5		V
Supply Current	I _{CC}	R _L =∞ V _{CC} =30V		0.8	2.0	mA
		V _{CC} =5V		0.5	1.2	mA
Large signal Voltage Gain	G _V	V _{CC} =15V R _L >2kΩ V _{o(p)} =1V to 11V	25	100		V/mV
Output voltage Swing	V _(OH)	V _{CC} =30V R _L =2kΩ	26			V
		V _{CC} =30V R _L =10kΩ	27	28		V
	V _(OL)	V _{CC} =5V R _L =10kΩ		5	20	mV
Commonmode rejection Ratio	CMRR		65	75		dB
Power supply rejection Ratio	PSRR		65	100		dB
Chanel Separation	CS	f=1kHz to 20kHz		5	20	mV
Short circuit to GND	I _{sc}			40	60	mA
Output current	I _{source}	V _{I(+)} =1V V _{I(-)} =0 V _{CC} =15V V _{o(p)} =2V	20	40		mA
		V _{I(+)} =0V V _{I(-)} =1V V _{CC} =15V V _{o(p)} =2V	10	13		mA
	I _{sink}	V _{I(+)} =1V V _{I(-)} =0 V _{CC} =15V V _{o(p)} =200mV	12	45		μA
Differential input voltage	V _{I(diff)}				V _{CC}	V

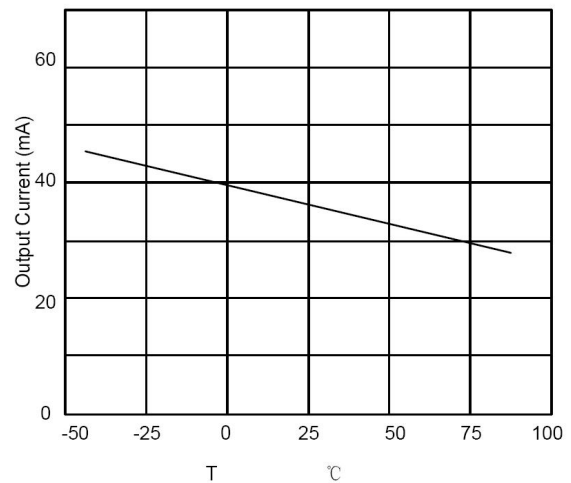
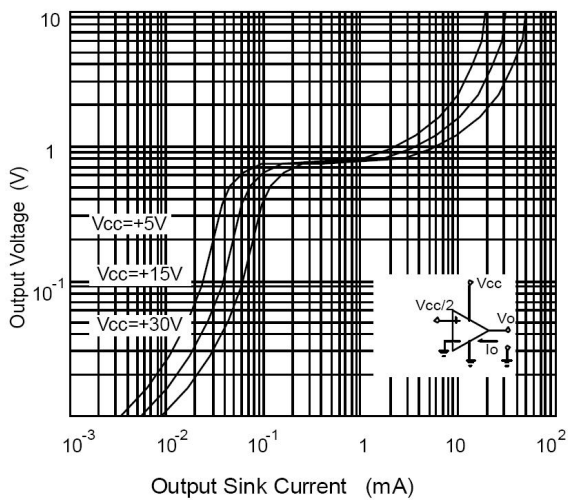
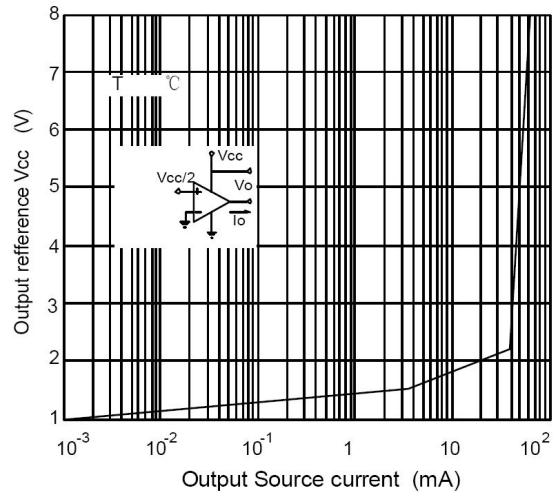
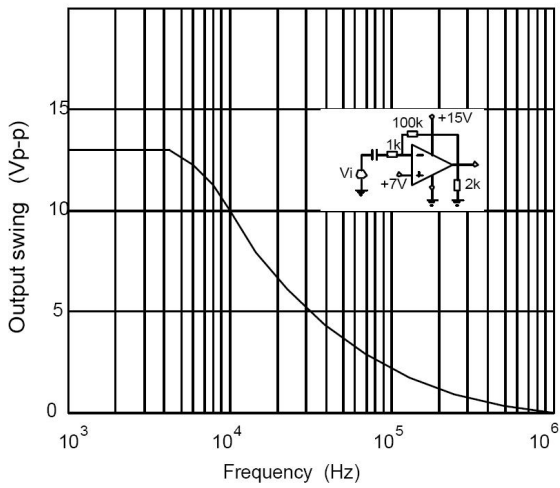
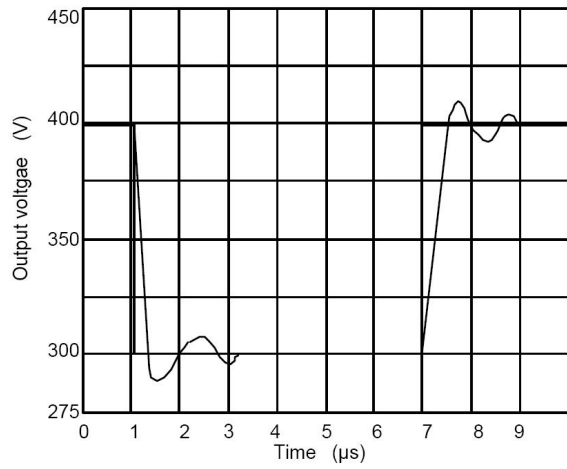
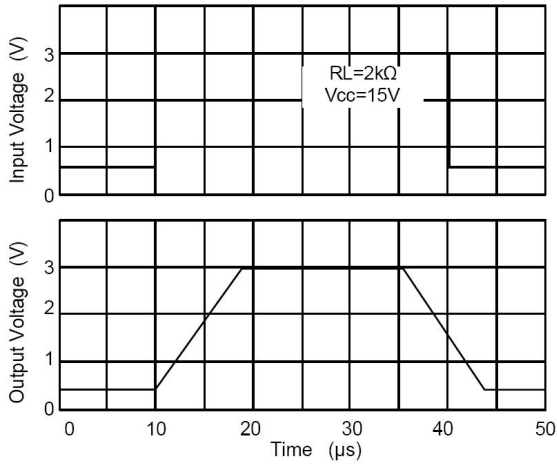
原理框图 / Functional Block Diagram



电参数曲线图 / Electrical Characteristic Curve



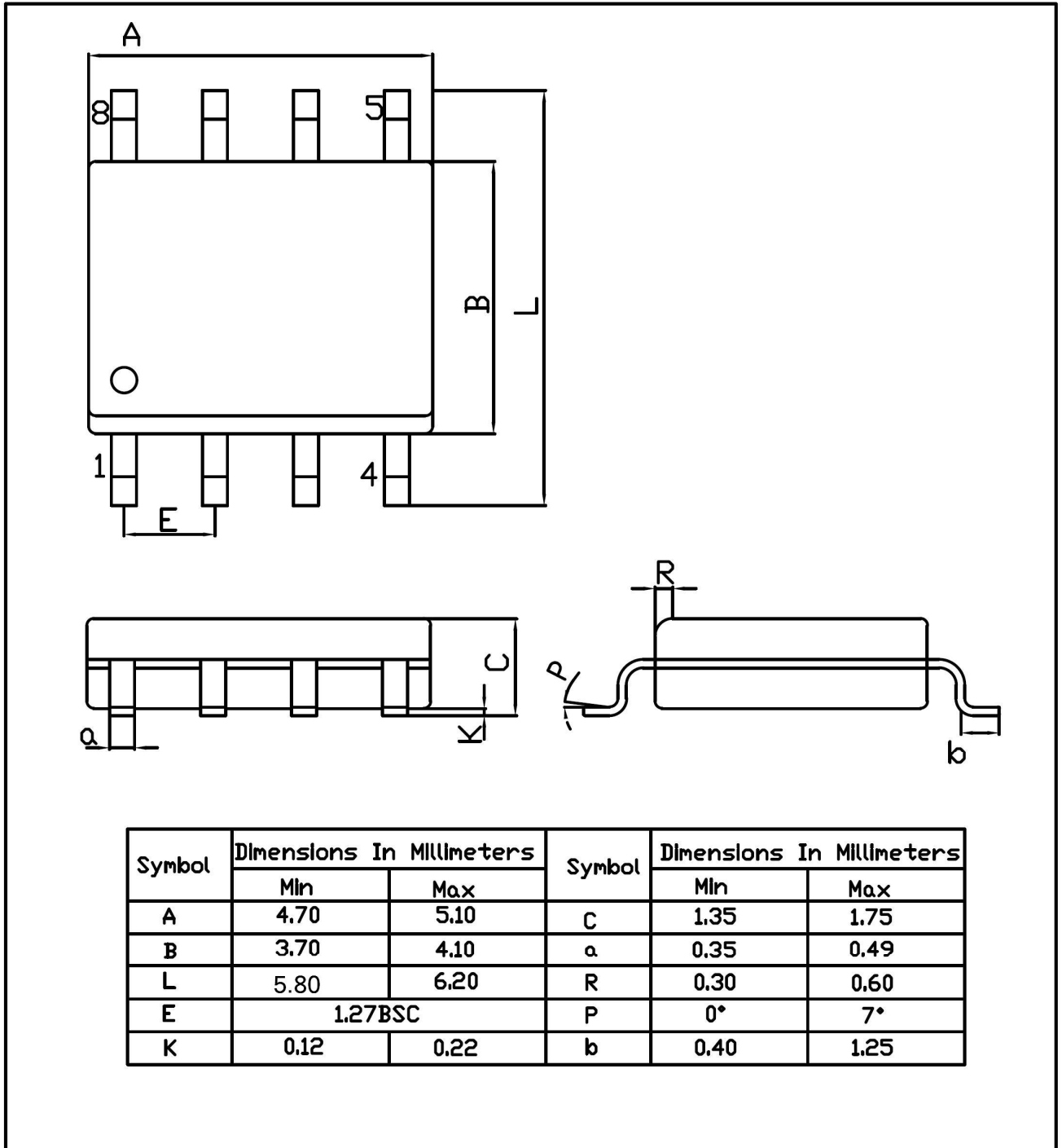
电参数曲线图 / Electrical Characteristic Curve



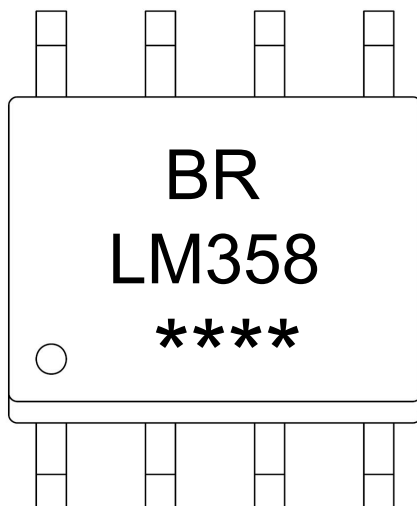
外形尺寸图 / Package Dimensions

SOP-8

Unit:mm



印章说明 / Marking Instructions



说明：

BR： 为公司代码

LM358： 为型号代码

****： 为生产批号代码，随生产批号变化

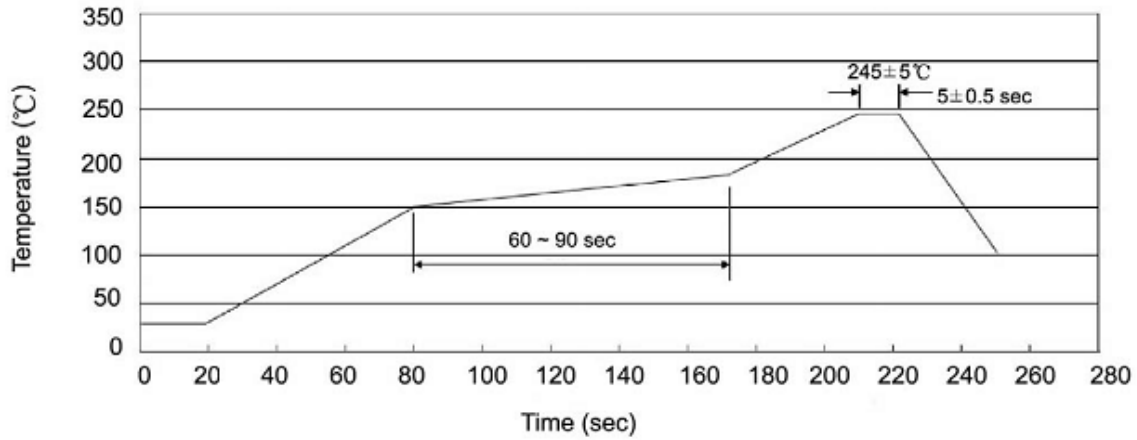
Note:

BR: Company Code.

LM358: Product Type.

****: 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

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