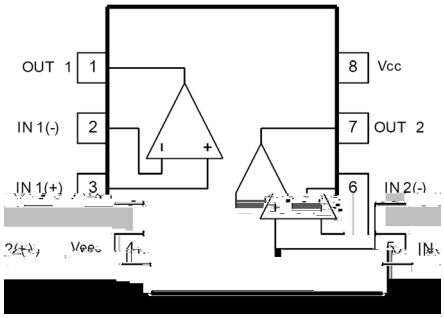
SOP-8 Dual Operational Amplifiers in a SOP-8 Plastic Package.

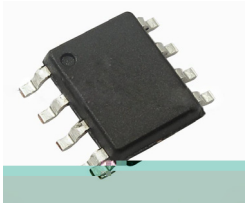
100dB V_{CC} =3V ~36V

0~Vcc-1.5V

Internally frequency compensated for unity gain, Large DC voltage gain : 100dB, Wide operating supply range (V_{cc}=3V~36V),Input common mode voltage includes ground, Large output voltage swing: From 0 to Vcc-1.5V,Power drain suitable for battery operation.

Application areas include transducer amplifier, DC gain blocks and all the conventional OP amp circuits.



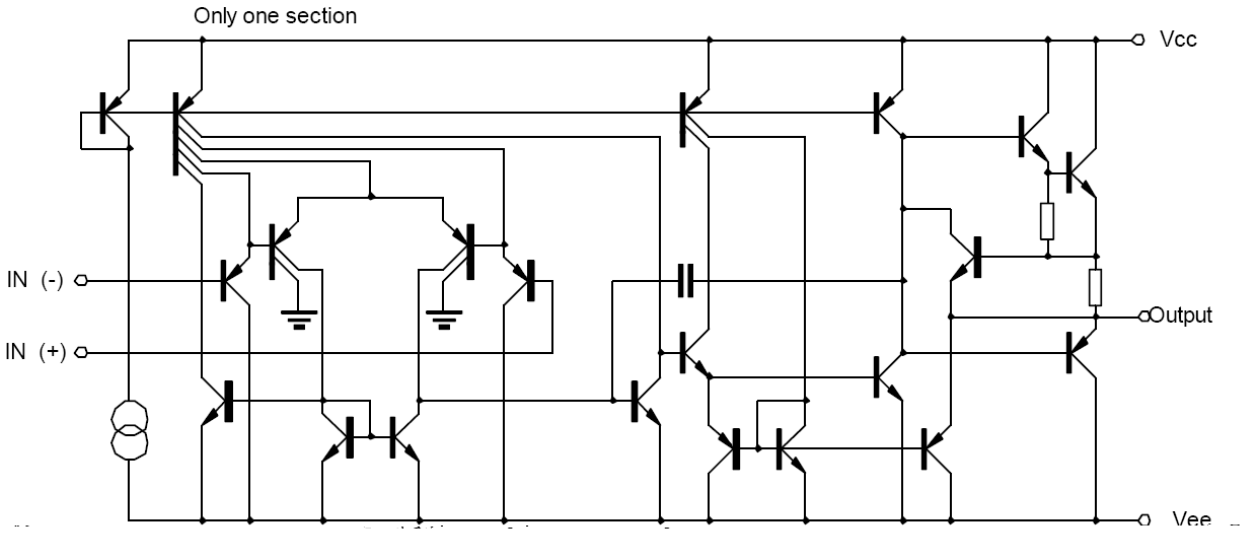


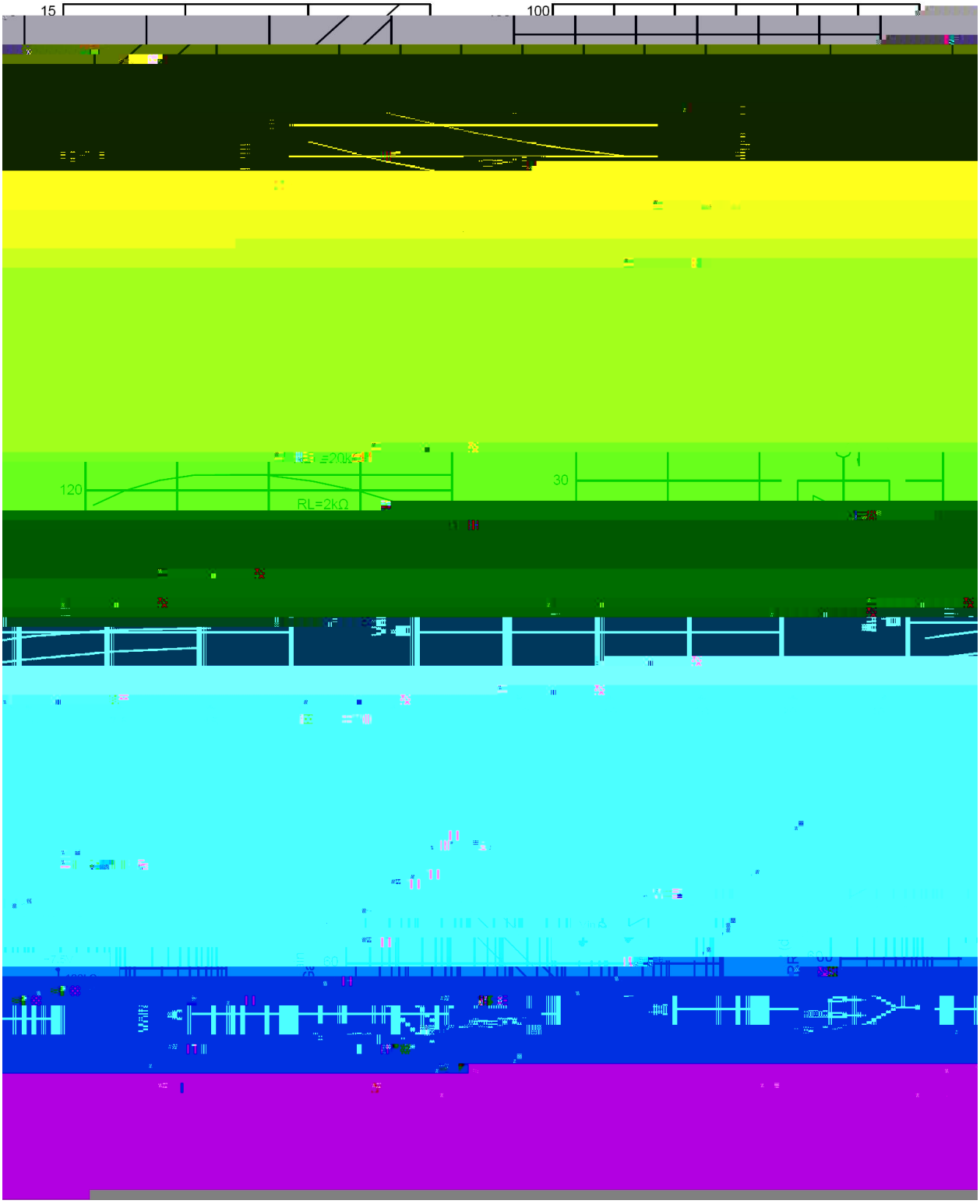
PIN / PIN See Equivalent Circuit.

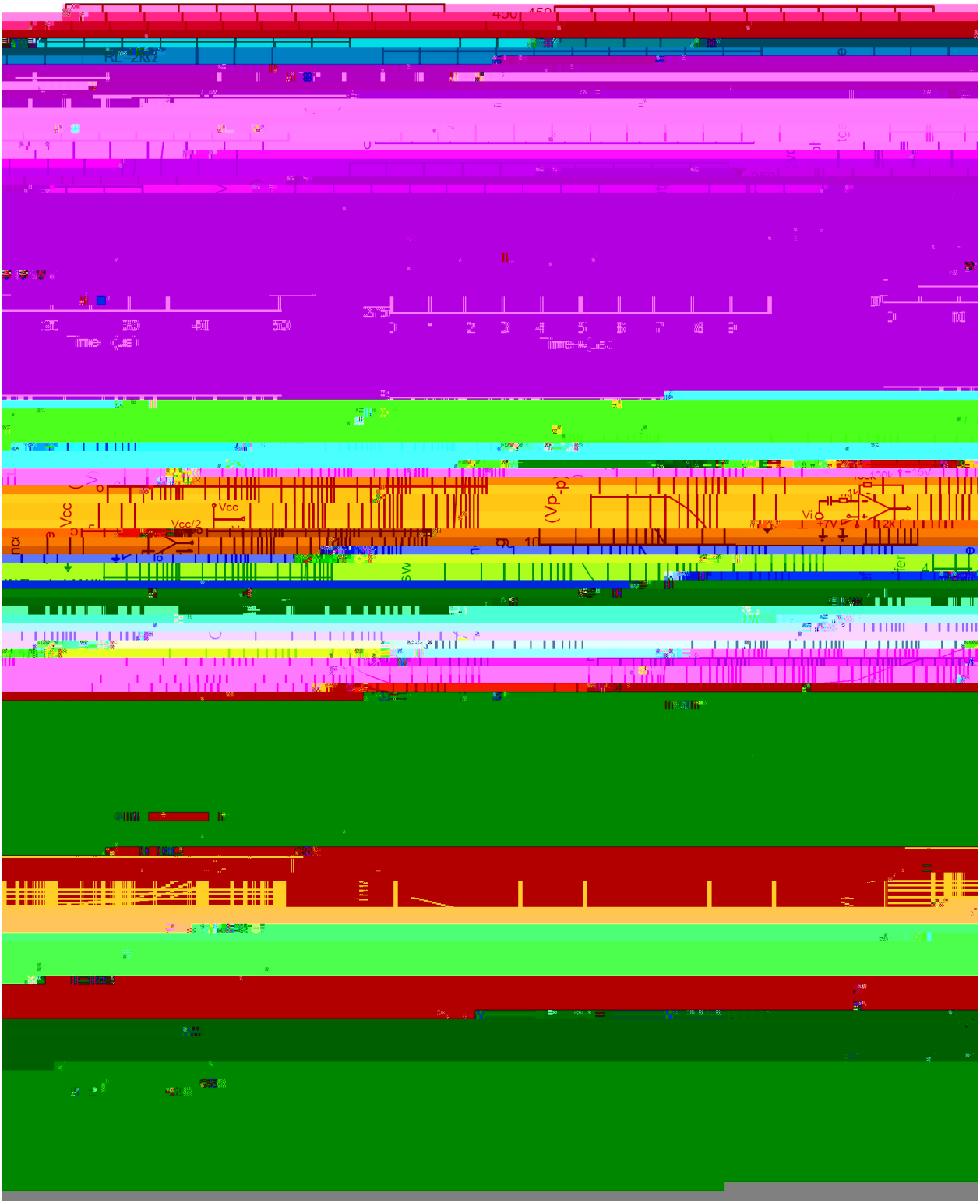
/ See Marking Instructions

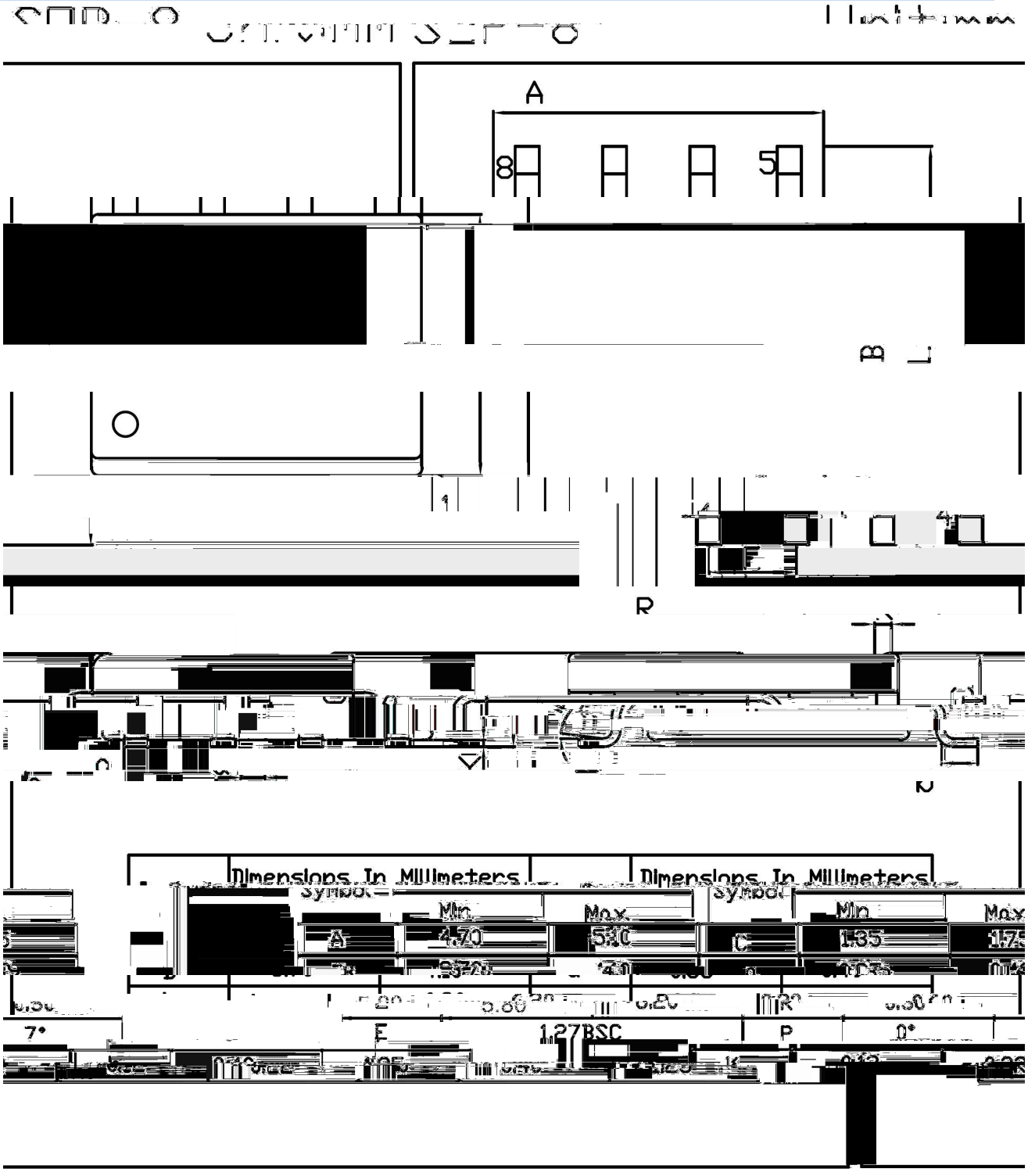
Parameter	Symbol	Rating	Unit
Supply Voltage	V_{CC}	±18	V
Differential input voltage	$V_{I(DIFF)}$	36	V
Input Voltage	V_I	-0.3~36	V
Power Dissipation	P_d	570	mW
Operating Temperature	T_{opr}	0 ~ 70	
Storage Temperature	T_{stg}	-65 ~ 150	

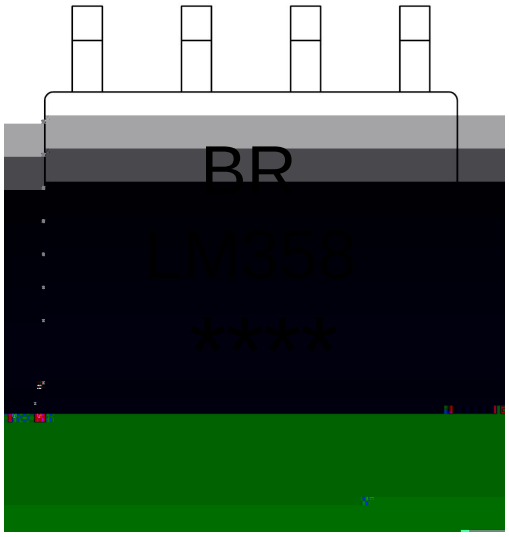
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input offset voltage	V_{IO}	V_{CM}=0 to Vcc-1.5 $V_{o(p)}$=1.4V R_s=0		2.0	3.0	mV
Input offset current	I_{IO}			2.0	30	nA
Input Bias current	I_b			45	100	nA
Input Commonmode voltage range	$V_{I(R)}$	V_{cc}=30V	0	V_{CC}-1.5		V
Supply Current	I_{cc}	R_L=∞ 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 Sepparation	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
	I_{sink}	$V_{I(+)}$=0V $V_{I(-)}$=1V V_{cc}=15V $V_{o(p)}$=2V	10	13		mA
		$V_{I(+)}$=1V $V_{I(-)}$=0 V_{cc}=15V $V_{o(p)}$=200mV	12	45		μA
Differential input voltage	$V_{I(diff)}$				V_{cc}	V


Only one section
Vcc
IN (-)
IN (+)
Output
Vee


15
100
120
RL=2kΩ
30
60
60




Dimensions In Millimeters
Dimensions In Millimeters
Min
Max
Min
Max
A
4.70
5.10
C
1.35
1.75
7°
e
1.27BSC
P
0°



BR

LM358

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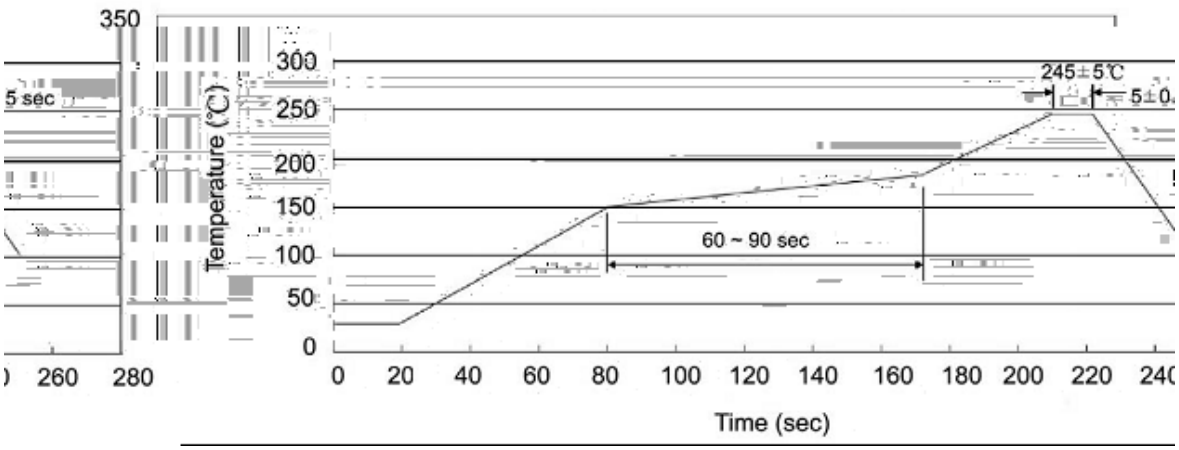
Note:

BR:	Company Code.
LM358:	Product Type.
****:	Lot No. Code, code change with Lot No.

Temperature Profile for IR Reflow Soldering(Pb-Free)



					Note:
1	150	180	60	90sec;	1.Preheating:150~180