/ Descriptions

SOT-23 NPN Silicon NPN transistor in a SOT-23 Plastic Package.

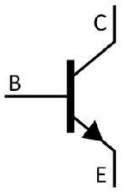
/ Features

, 2SB1198K

High breakdown, low $V_{CE(sat)}$,complements the 2SB1198K.

/ Applications

Medium power amplifier applications.





PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

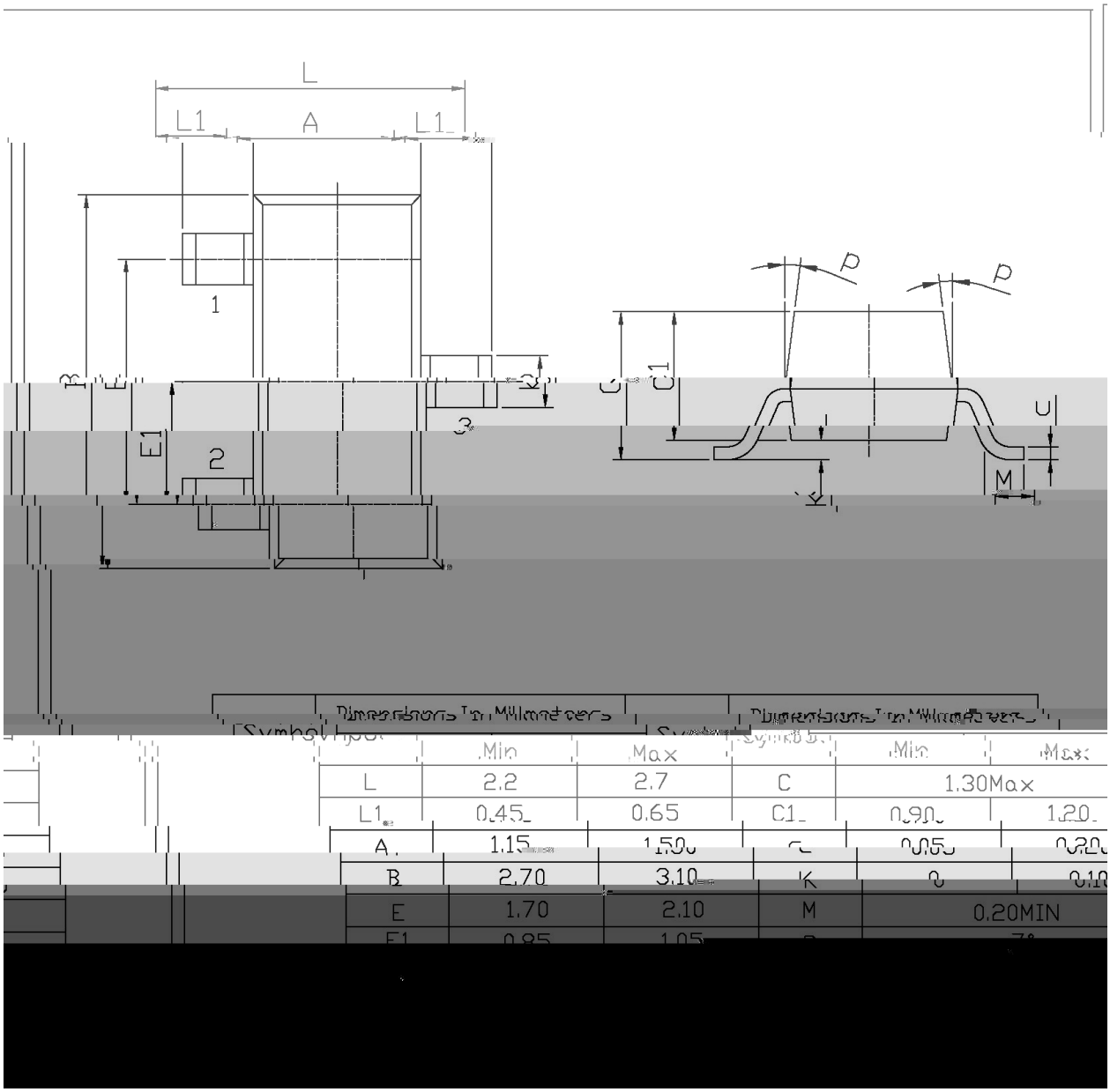
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	80	V
Collector to Emitter Voltage	V_{CEO}	80	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current - Continuous	I_C	500	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=50 A	80			V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=2mA	80			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=50 A	5.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=50 V I_E=0			0.5	A
Emitter Base Cut-Off Current	I_{EBO}	V_{EB}=4.0V I_C=0			0.5	A
DC Current Gain	h_{FE}	V_{CE}=3.0V I_C=100mA	120		390	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=500mA I_B=50mA		0.2	0.5	V
Transition Frequency	f_T	I_C=50mA V_{CE}=10V f=100MHz		120		MHz
Collector output capacitance	C_{ob}	V_{CB}=10V I_E=0 f=1.0MHz		7.5		pF

T

/ Package Dimensions

SOT-23 单位：mm



Symbol	Dimensions In Millimeters Min	Max	Symbol	Dimensions In Millimeters Min	Max
L	2.2	2.7	C	1.30Max	
L1	0.45	0.65	C1	0.90	1.20
A	1.15	1.50	C	0.05	0.20
B	2.70	3.10	K	0	0.10
E	1.70	2.10	M	0.20MIN	
E1	0.85	1.05			

/ Marking Instructions



H

AJ

R h_{FE}

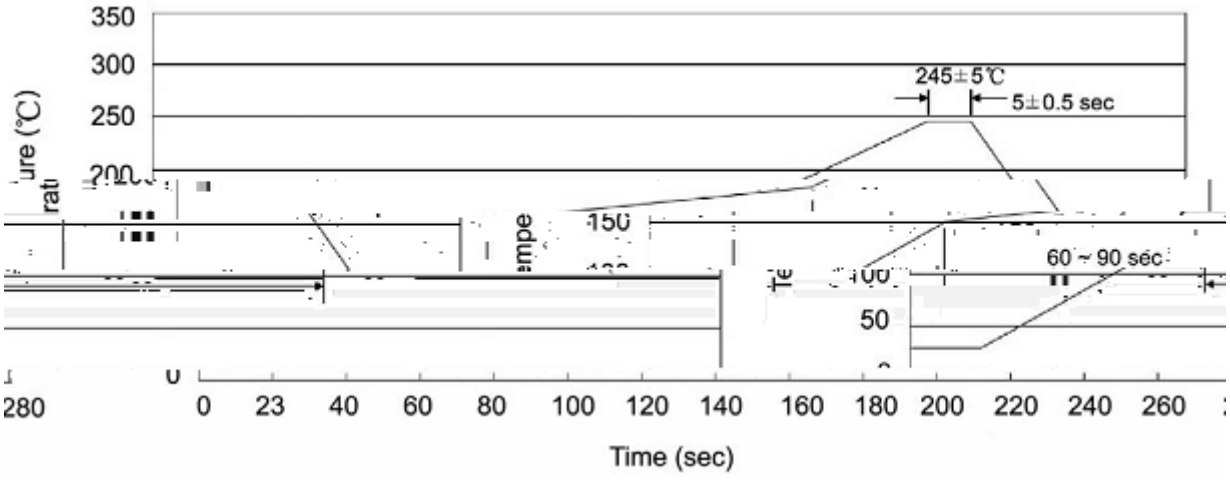
Note:

H: Company Code.

AJ: Product Type Code.

R: h_{FE} Classifications Symbol Code.

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

1	25	150		60	90sec;
2	245±5				5±0.5sec;
3			2	10	/sec.

1.Preheating:25~150 , Time:60~90sec.
2.Peak Temp.:245±5 , Duration:5±0.5sec.
3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec

/ Packaging SPEC.

/ 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
SOT-23	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices