

BC856

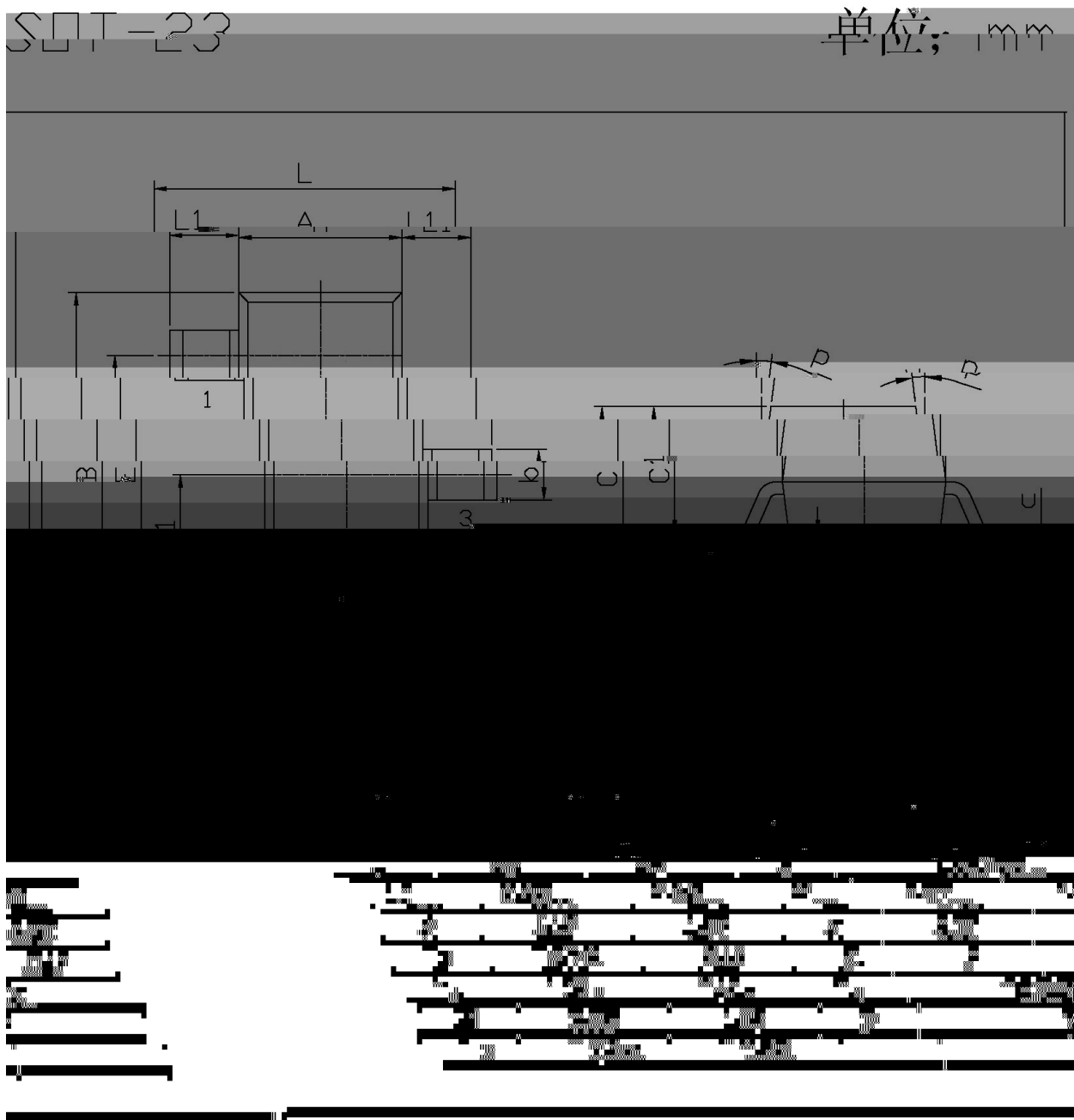
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-80	V
Collector to Emitter Voltage	V_{CEO}	-65	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-100	mA
Collector Power Dissipation	P_C	350	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

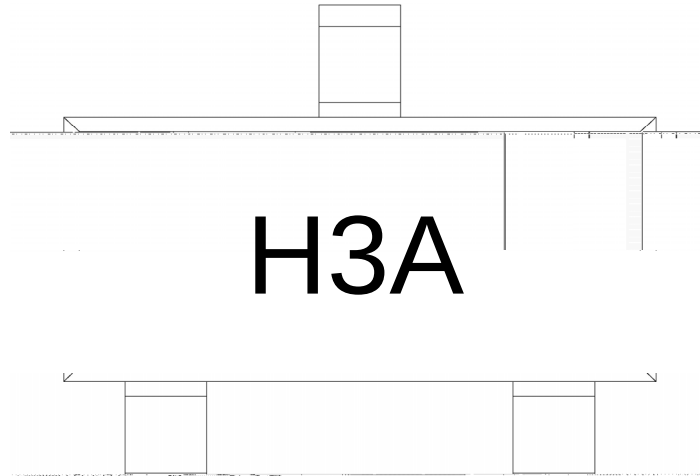
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-30\text{ V}$ $I_E=0$			-0.015	μA
DC Current Gain	h_{FE}	$V_{CE}=-5.0\text{V}$ $I_C=-2.0\text{mA}$	125		475	
Collector to Emitter Saturation Voltage	$V_{CE(sat)(1)}$	$I_C=-10\text{mA}$ $I_B=-0.5\text{mA}$		-0.09	-0.3	V
	$V_{CE(sat)(2)}$	$I_C=-100\text{mA}$ $I_B=-5.0\text{mA}$		-0.25	-0.65	V
Base to Emitter Saturation Voltage	$V_{BE(sat)(1)}$	$I_C=-10\text{mA}$ $I_B=-0.5\text{mA}$		-0.7		V
	$V_{BE(sat)(2)}$	$I_C=-100\text{mA}$ $I_B=-5.0\text{mA}$		-0.9		V
Base to Emitter Voltage	$V_{BE(ON)1}$	$V_{CE}=-5.0\text{V}$ $I_C=-2.0\text{mA}$	-0.6	-0.65	-0.75	V
Base to Emitter Voltage	$V_{BE(ON)2}$	$V_{CE}=-5.0\text{V}$ $I_C=-10\text{mA}$			-0.82	V
Transition Frequency	f_T	$V_{CE}=-5.0\text{V}$ $I_C=10\text{mA}$ $f=100\text{MHz}$		150		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10\text{V}$ $I_E=0$ $f=1.0\text{MHz}$		4.5		pF
Noise Figure	NF	$V_{CE}=-6.0\text{V}$ $I_C=-0.1\text{mA}$ $R_g=2\text{K}\Omega$ $f=1.0\text{KHz}$		2.0	10	dB

/ Package Dimensions



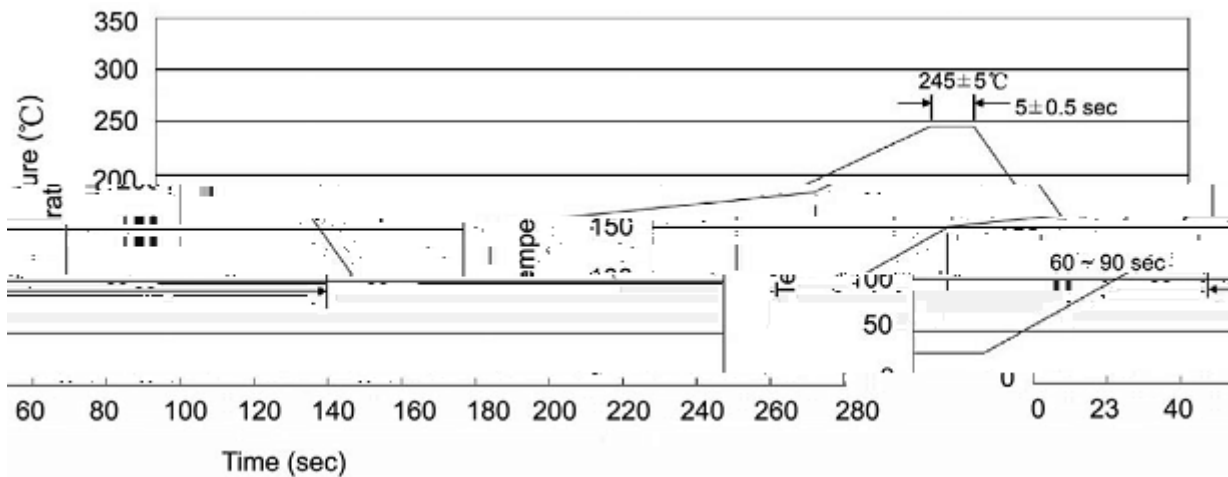
/ Marking Instructions



Note:

H: Company Code.

3A: Product Type Code


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


Note:

- | | | | | | |
|---|-----|-----|----|----------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 245 | 5 | 5 | 0.5sec; | 2.Peak Temp.:245 5 , Duration:5 0.5sec. |
| 3 | | | 2 | 10 /sec. | 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	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-23	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices