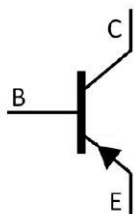


SOT-23 PNP Silicon PNP transistor in a SOT-23 Plastic Package.

, , h_{FE} , , 2SC1815M
 High voltage and high current, excellent h_{FE} linearity, low noise, complementary pair with 2SC1815M.

,
 Audio frequency general purpose amplifier applications, driver stage amplifier applications.

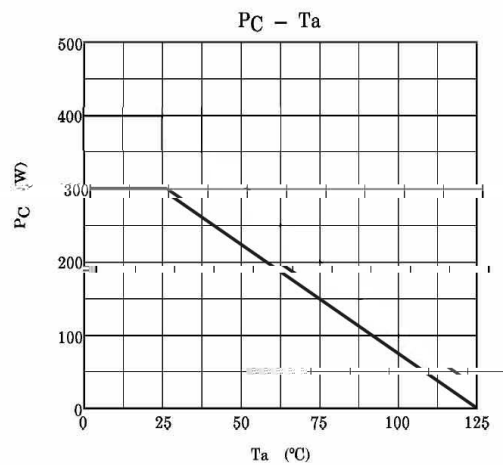
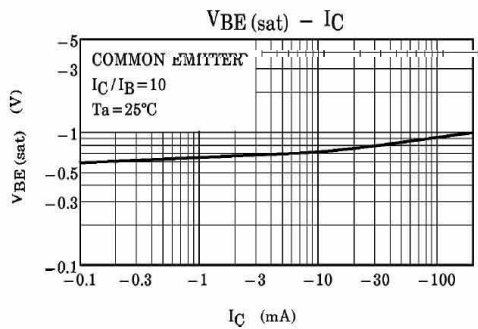
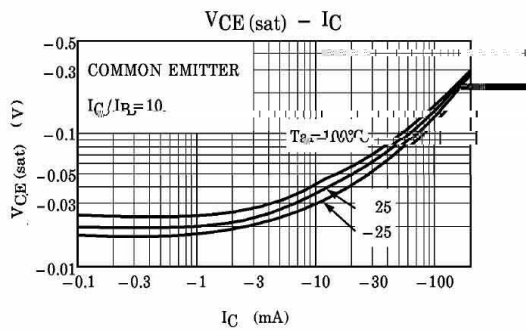
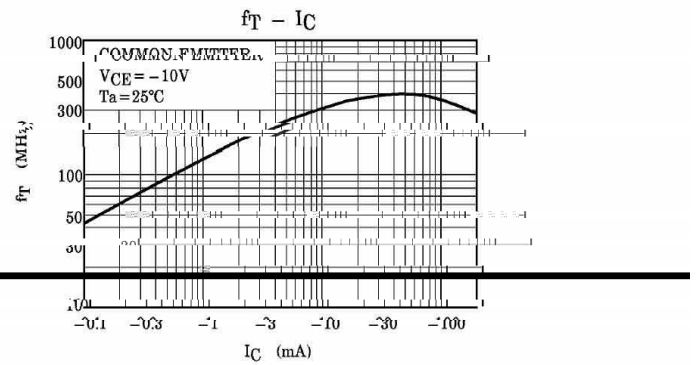
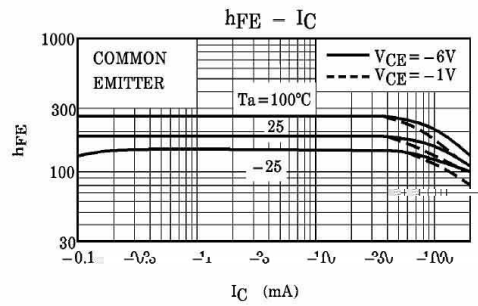
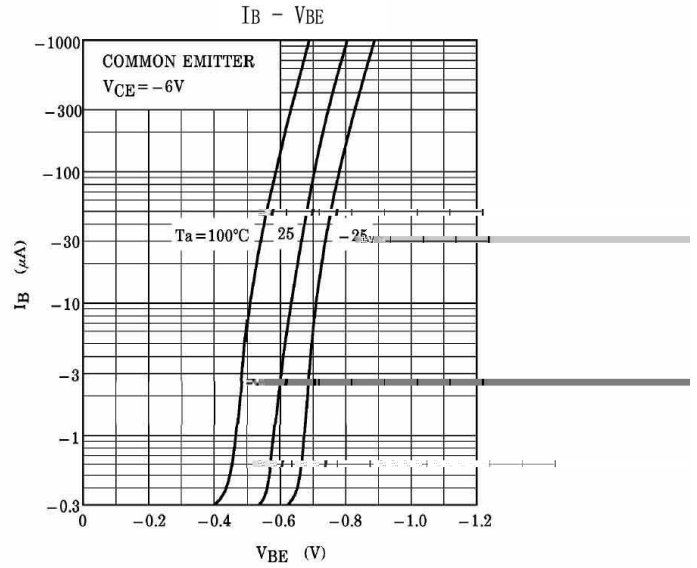
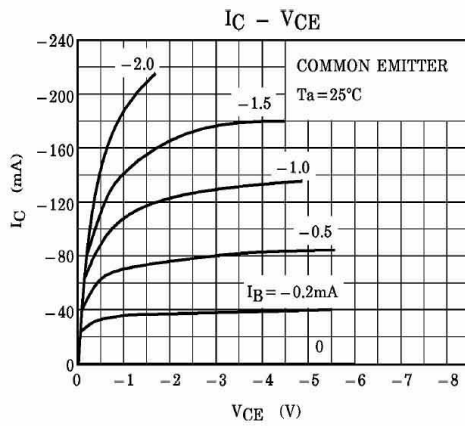


PIN1 Base PIN 2 Emitter PIN 3 Collector

h_{FE} Classifications Symbol	O	Y	GR
h_{FE} Range	70~140	120~240	200~400
Marking	HBAO	HBAY	HBAG

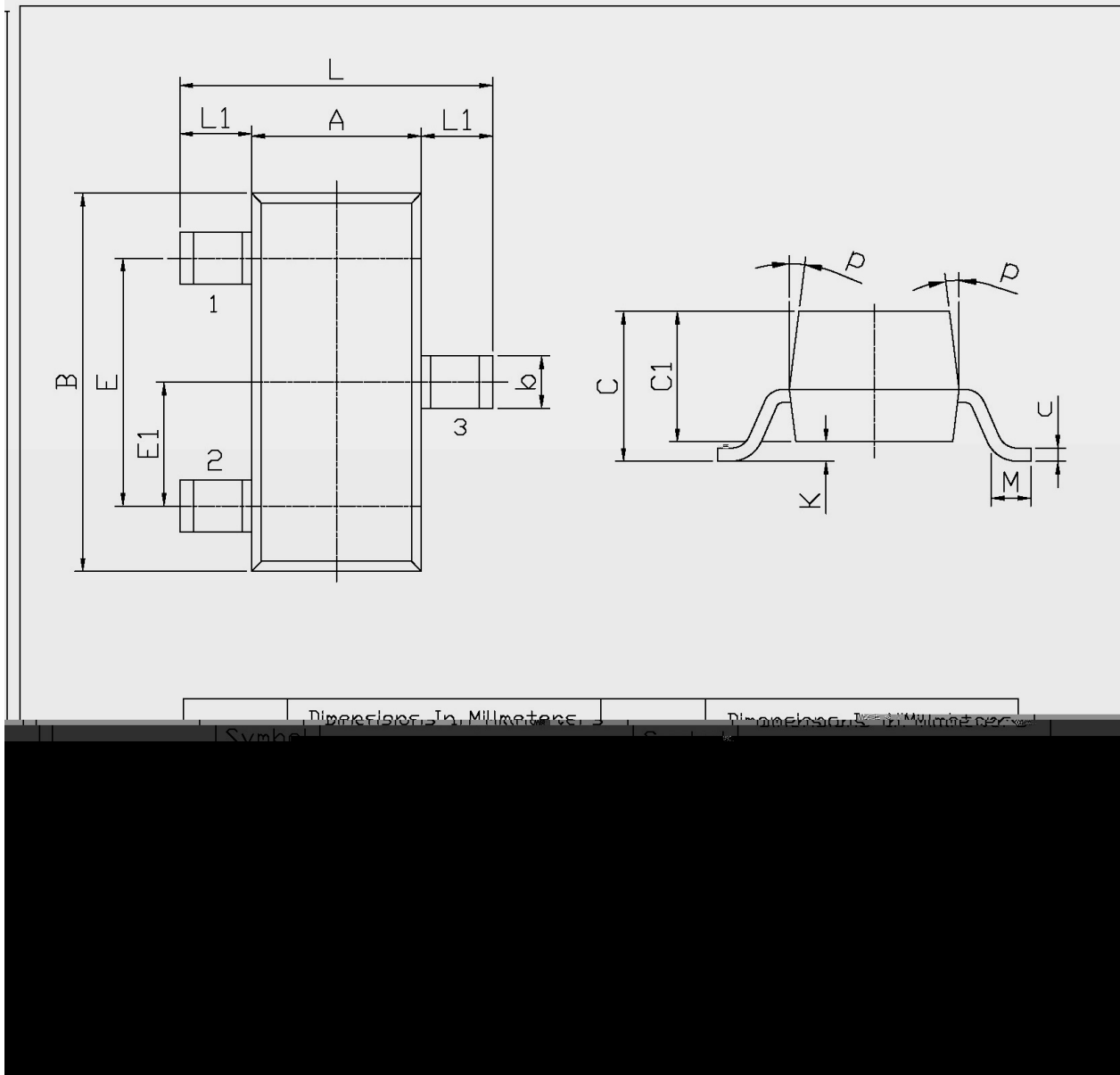
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-50	V
Collector to Emitter Voltage	V_{CEO}	-50	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current	I_C	-150	mA
Base Current	I_B	-50	mA
Collector Power Dissipation	P_C	300	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55~150	

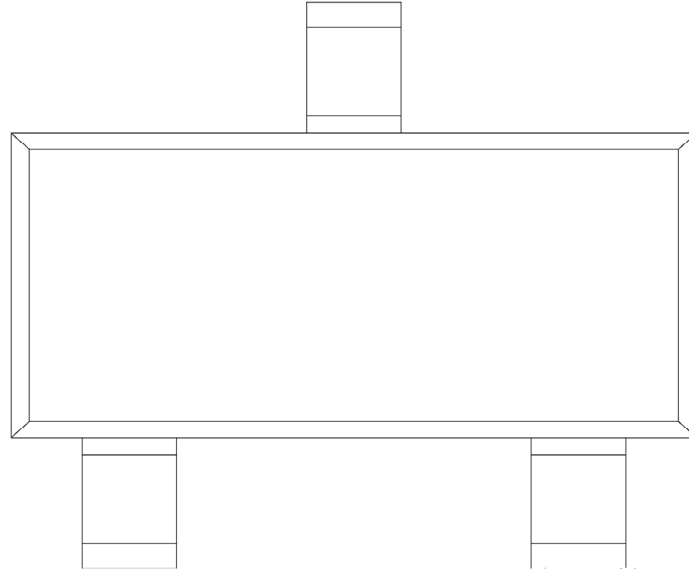
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-50V$ $I_E=0$			-0.1	μA
Emitter Base Cut-Off Current	I_{EBO}	$V_{EB}=-5.0V$ $I_C=0$			-0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-6.0V$ $I_C=-2.0mA$	70		400	
	$h_{FE(2)}$	$V_{CE}=-6.0V$ $I_C=-150mA$	25			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-100mA$ $I_B=-10mA$		-0.1	-0.3	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-100mA$ $I_C=-10mA$			-1.1	V
Transition Frequency	f_T	$I_C=-1.0mA$ $V_{CE}=-10V$	80			MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V$ $I_E=0$ $f=1.0MHz$		4.0	7.0	pF
Base Intrinsic Resistance	$r_{bb'}$	$V_{CB}=-10V$ $I_E=1.0mA$ $f=30MHz$		30		Ω
Noise Figure	NF	$V_{CE}=-6.0V$ $I_C=-0.1mA$ $R_G=10k\Omega$ $f=1.0KHz$		1.0	10	dB



SNT-23

单位: mm





H

BA

O: h_{FE}

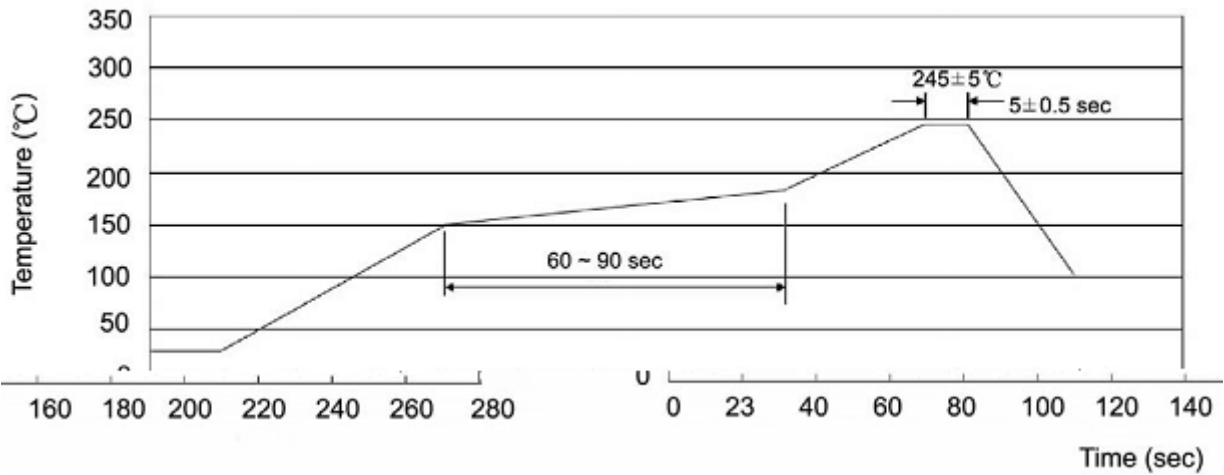
Note:

H: Company Code.

BA: Product Type Code

O: h_{FE}

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.

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

/ 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	8	180,000	7" x8	180×120×180	390×385×205