

/ Descriptions

SOT-23

NPN

Silicon NPN transistor in a SOT-23 Plastic Package.

/ Features

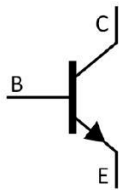
, 2SA933M

Small base output capacitance, complementary pair with 2SA933M.

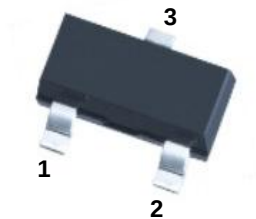
/ Applications

General purpose amplifier.

/ Equivalent Circuit



/ Pinning



PIN1	Base	PIN 2	Emitter	PIN 3	Collector
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/ h_{FE} Classifications & Marking

h _{FE} Classifications Symbol	Q	R	S
h _{FE} Range	120 270	180 390	270 560
Marking	BQH	BRH	BSH

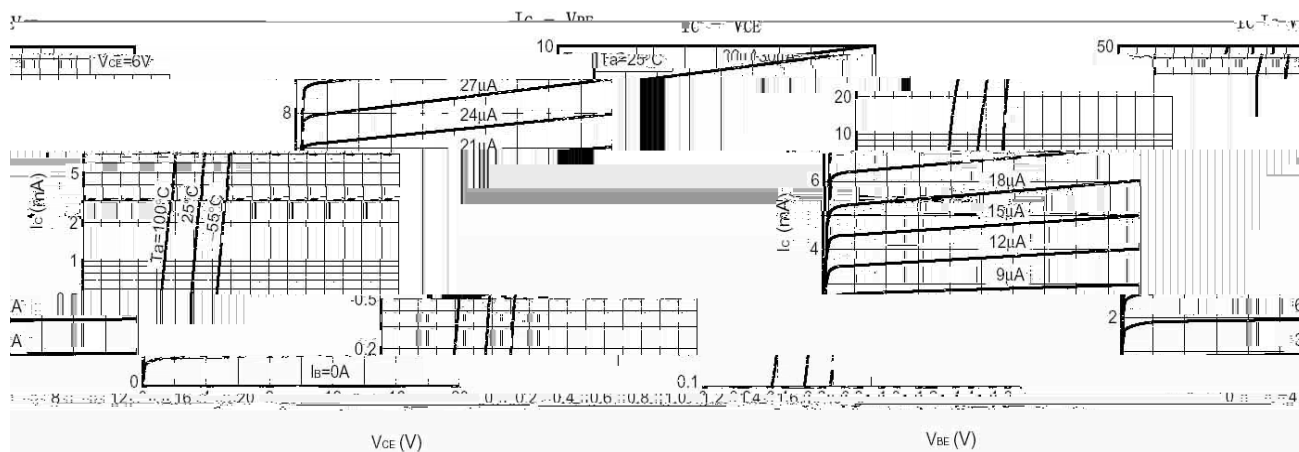
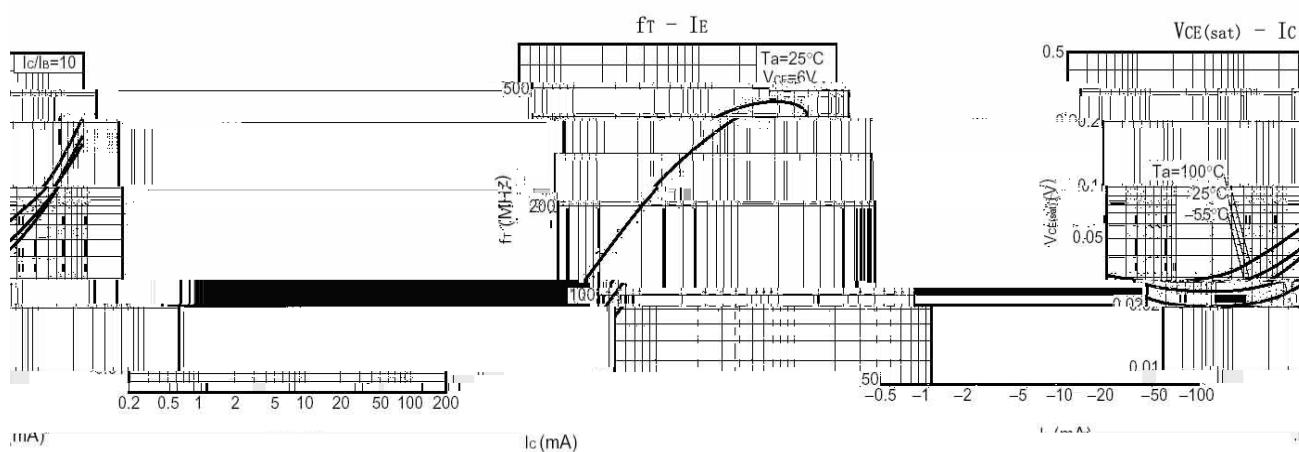
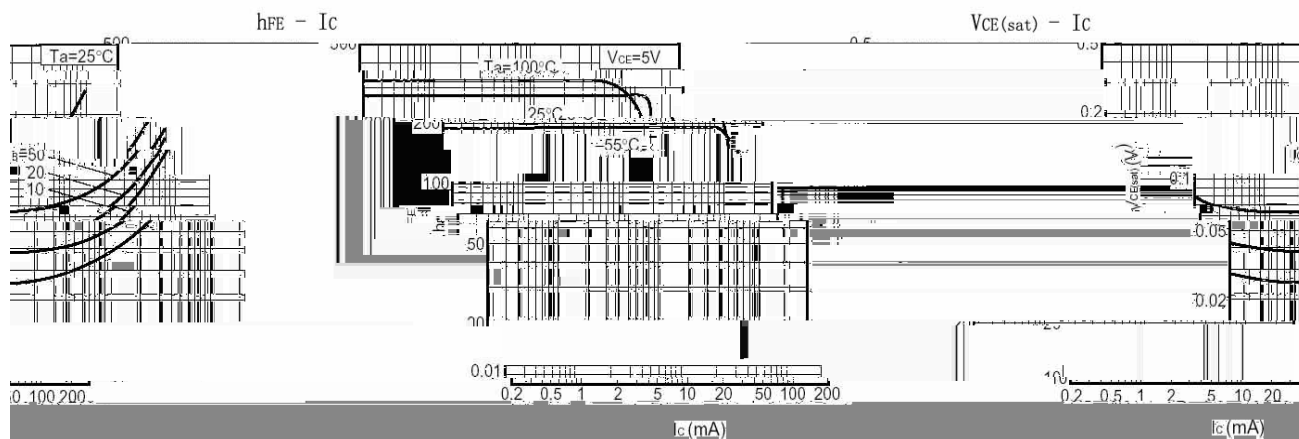
2SC1740M

Rev.F Apr.-2017

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	7.0	V
Collector Current	I_C	150	mA
Collector Power Dissipation	P_C	250	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 150	°C

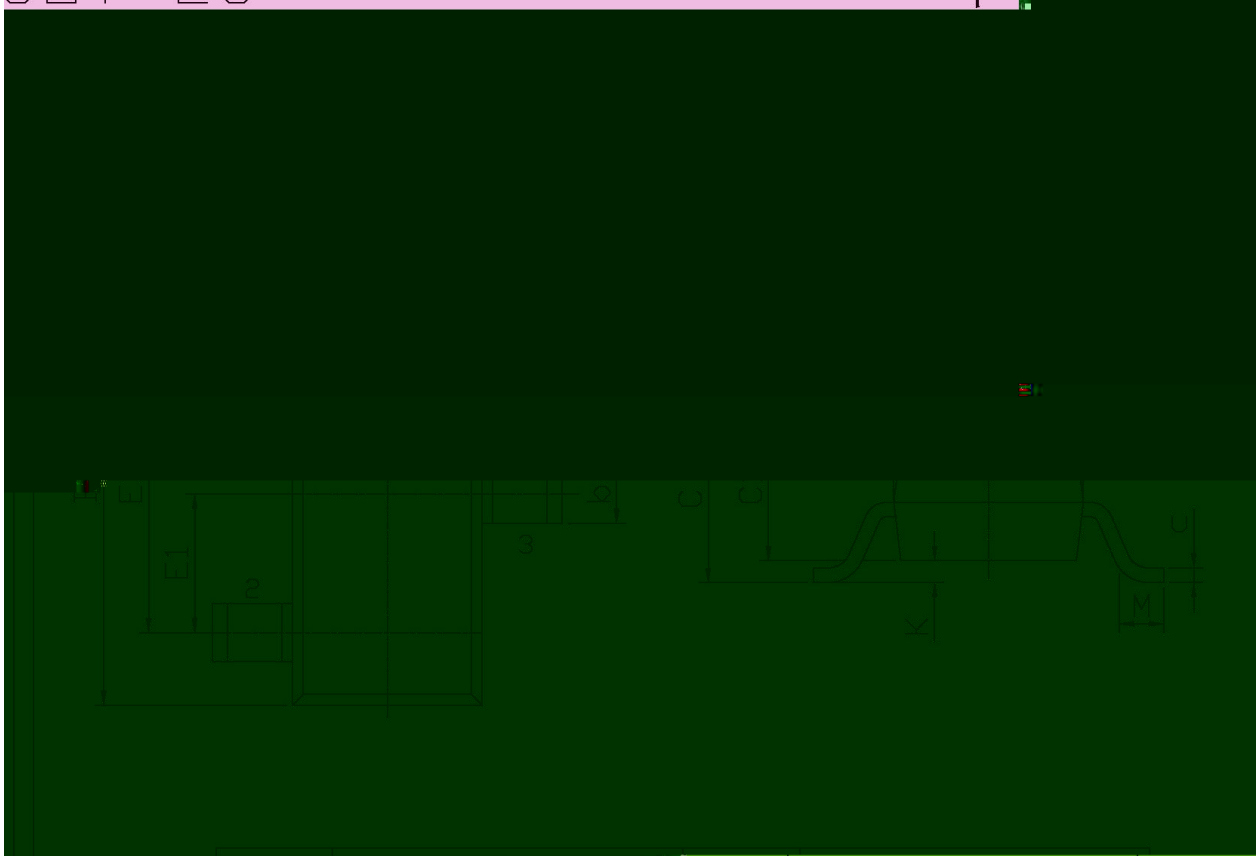
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	V_{CBO}	$I_C=50\text{ A}$ $I_E=0$	60			V
Collector-Emitter Breakdown Voltage	V_{CEO}	$I_C=1.0\text{mA}$ $I_B=0$	50			V
Emitter-Base Breakdown Voltage	V_{EBO}	$I_E=50\text{ A}$ $I_C=0$	7.0			V

/ Electrical Characteristic Curve



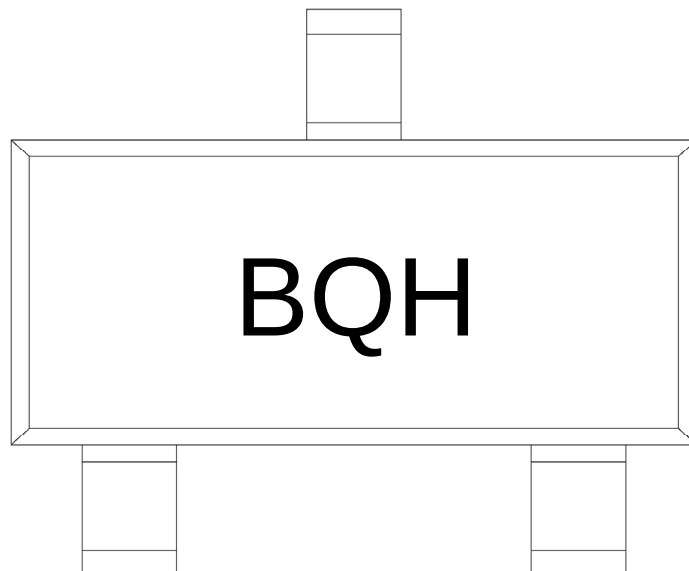
SNT-23

单位



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
L	2.2	2.7	C	1.30Max	
L1	0.45	0.65	C1	0.45	0.65
L2	0.45	0.65	C2	0.45	0.65
L3	0.45	0.65	C3	0.45	0.65
L4	0.45	0.65	C4	0.45	0.65
L5	0.45	0.65	C5	0.45	0.65
L6	0.45	0.65	C6	0.45	0.65
L7	0.45	0.65	C7	0.45	0.65
L8	0.45	0.65	C8	0.45	0.65
L9	0.45	0.65	C9	0.45	0.65
L10	0.45	0.65	C10	0.45	0.65
L11	0.45	0.65	C11	0.45	0.65
L12	0.45	0.65	C12	0.45	0.65
L13	0.45	0.65	C13	0.45	0.65
L14	0.45	0.65	C14	0.45	0.65
L15	0.45	0.65	C15	0.45	0.65
L16	0.45	0.65	C16	0.45	0.65
L17	0.45	0.65	C17	0.45	0.65
L18	0.45	0.65	C18	0.45	0.65
L19	0.45	0.65	C19	0.45	0.65
L20	0.45	0.65	C20	0.45	0.65
L21	0.45	0.65	C21	0.45	0.65
L22	0.45	0.65	C22	0.45	0.65
L23	0.45	0.65	C23	0.45	0.65
L24	0.45	0.65	C24	0.45	0.65
L25	0.45	0.65	C25	0.45	0.65
L26	0.45	0.65	C26	0.45	0.65
L27	0.45	0.65	C27	0.45	0.65
L28	0.45	0.65	C28	0.45	0.65
L29	0.45	0.65	C29	0.45	0.65
L30	0.45	0.65	C30	0.45	0.65
L31	0.45	0.65	C31	0.45	0.65
L32	0.45	0.65	C32	0.45	0.65
L33	0.45	0.65	C33	0.45	0.65
L34	0.45	0.65	C34	0.45	0.65
L35	0.45	0.65	C35	0.45	0.65
L36	0.45	0.65	C36	0.45	0.65
L37	0.45	0.65	C37	0.45	0.65
L38	0.45	0.65	C38	0.45	0.65
L39	0.45	0.65	C39	0.45	0.65
L40	0.45	0.65	C40	0.45	0.65
L41	0.45	0.65	C41	0.45	0.65
L42	0.45	0.65	C42	0.45	0.65
L43	0.45	0.65	C43	0.45	0.65
L44	0.45	0.65	C44	0.45	0.65
L45	0.45	0.65	C45	0.45	0.65
L46	0.45	0.65	C46	0.45	0.65
L47	0.45	0.65	C47	0.45	0.65
L48	0.45	0.65	C48	0.45	0.65
L49	0.45	0.65	C49	0.45	0.65
L50	0.45	0.65	C50	0.45	0.65
L51	0.45	0.65	C51	0.45	0.65
L52	0.45	0.65	C52	0.45	0.65
L53	0.45	0.65	C53	0.45	0.65
L54	0.45	0.65	C54	0.45	0.65
L55	0.45	0.65	C55	0.45	0.65
L56	0.45	0.65	C56	0.45	0.65
L57	0.45	0.65	C57	0.45	0.65
L58	0.45	0.65	C58	0.45	0.65
L59	0.45	0.65	C59	0.45	0.65
L60	0.45	0.65	C60	0.45	0.65
L61	0.45	0.65	C61	0.45	0.65
L62	0.45	0.65	C62	0.45	0.65
L63	0.45	0.65	C63	0.45	0.65

/ Marking Instructions



B

Q: h_{FE}

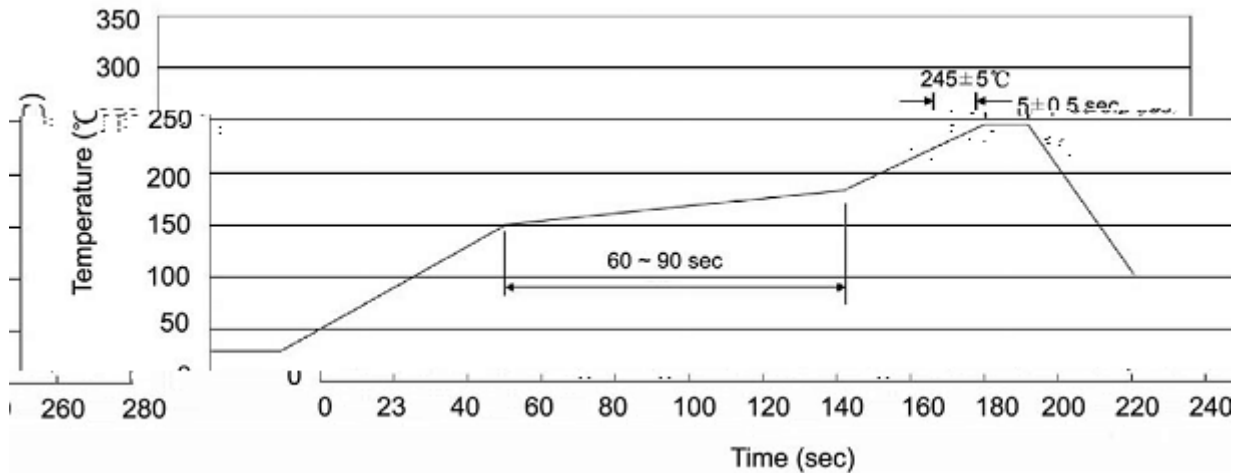
H

Note:

B: Product Type Code

Q: h_{FE} Classifications Symbol Code

H: Company 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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱		盒	箱

/ Notices