

/ Descriptions

SOT-23

NPN

Silicon NPN transistor in a SOT-23 Plastic Package.

/ Features

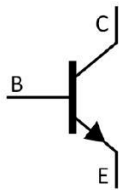
, 2SA933M

Small base output capacitance, complementary pair with 2SA933M.

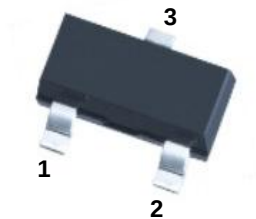
/ Applications

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

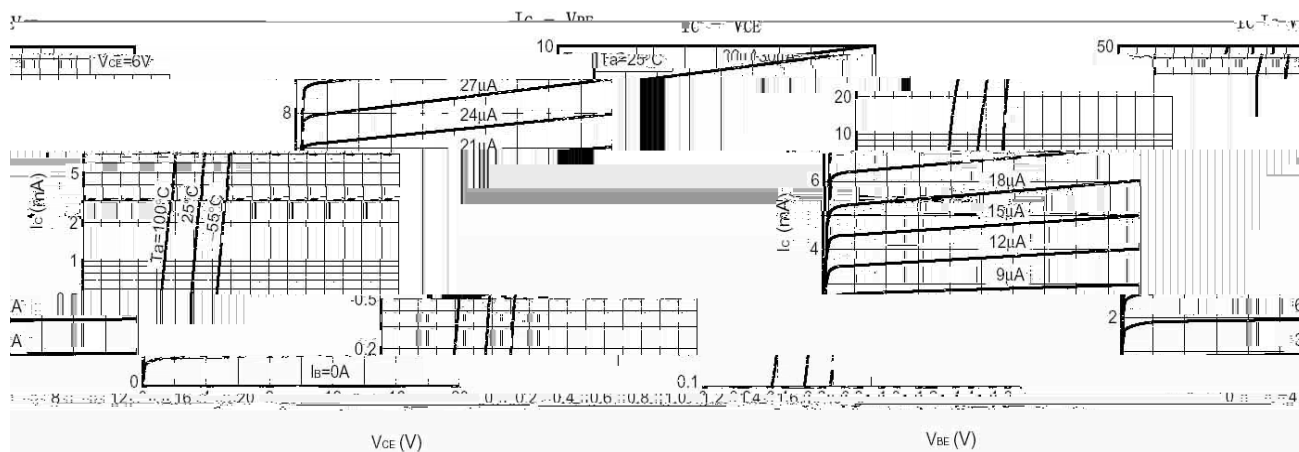
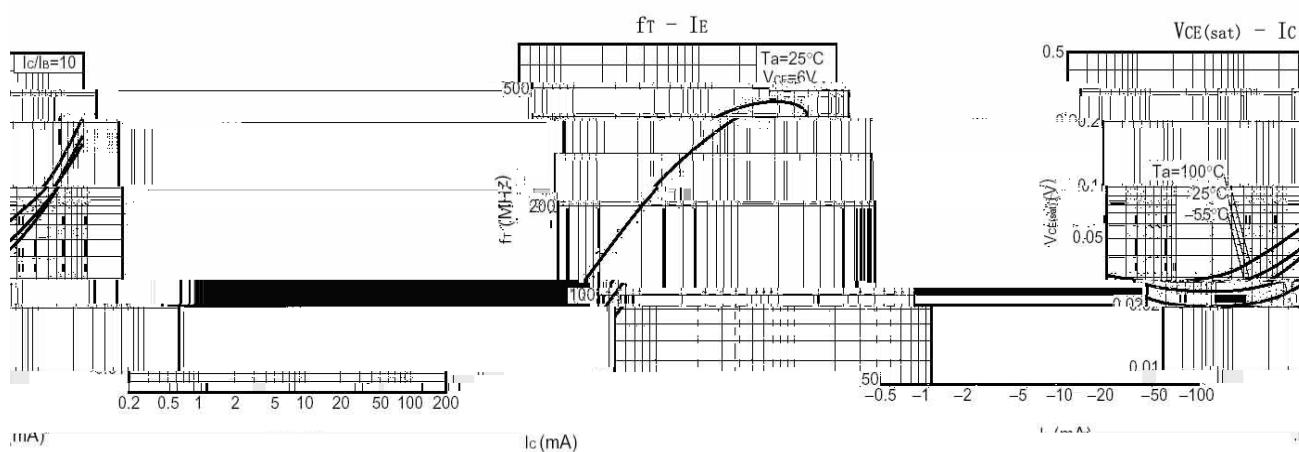
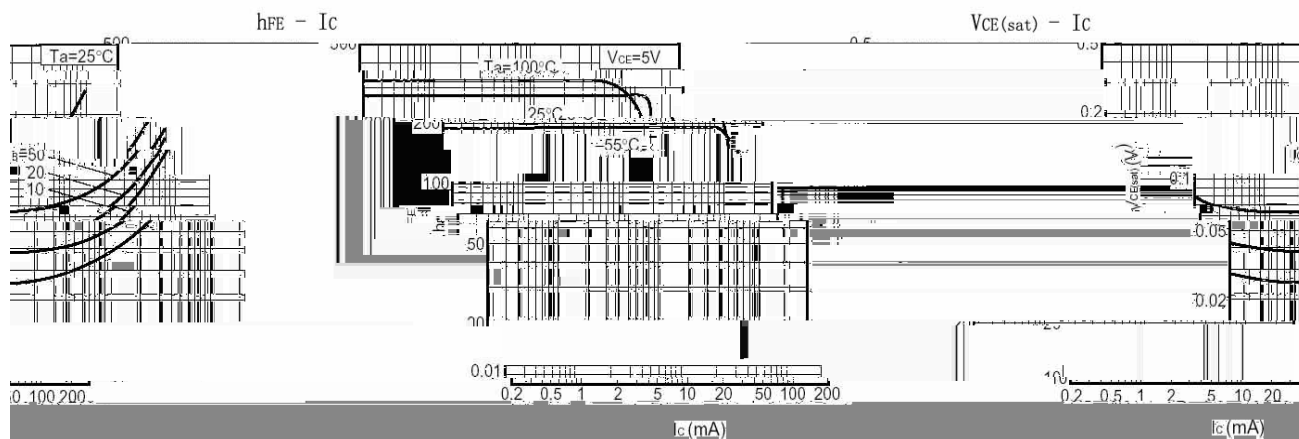
2SC1740M

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

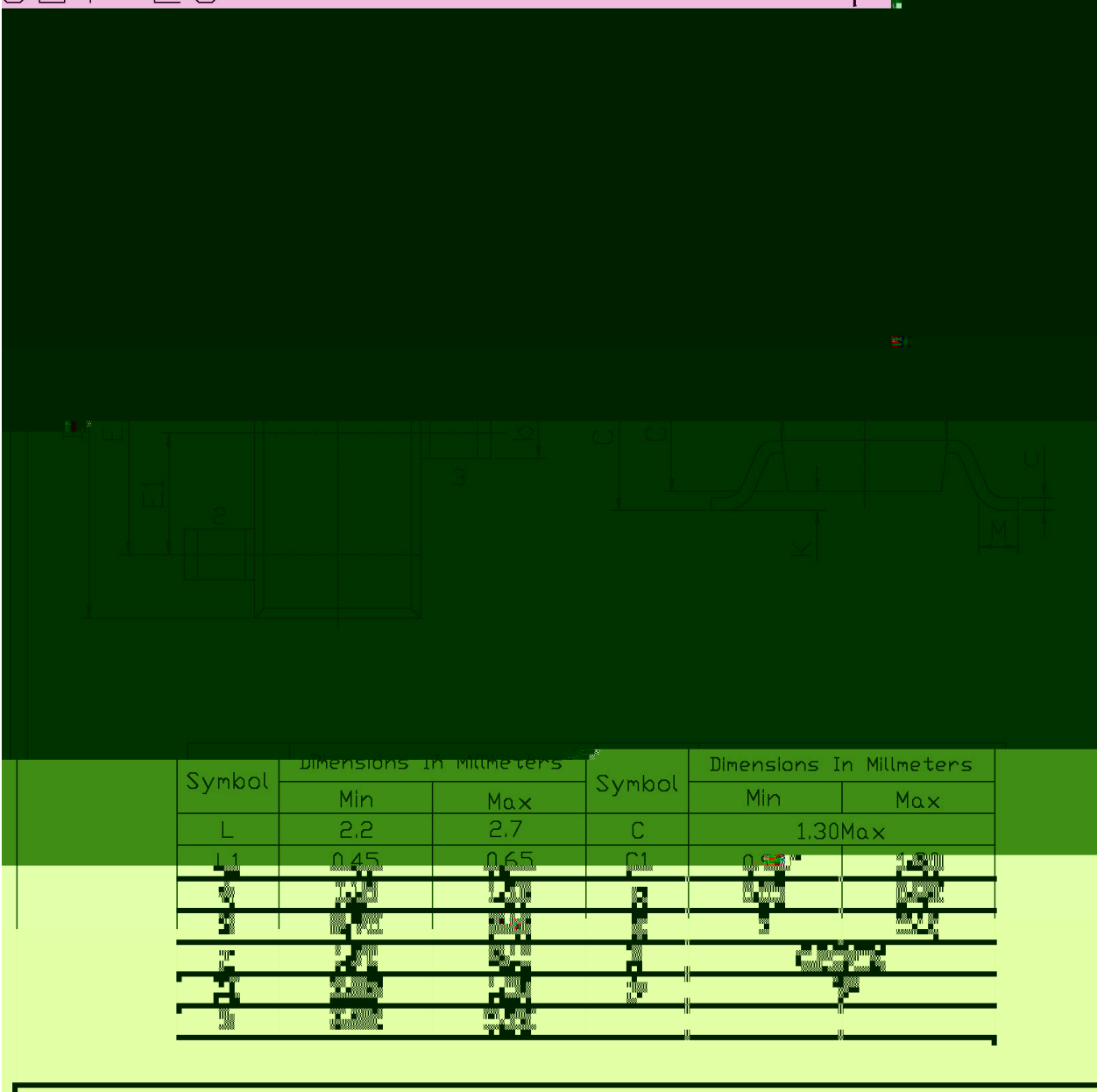
/ Electrical Characteristic Curve



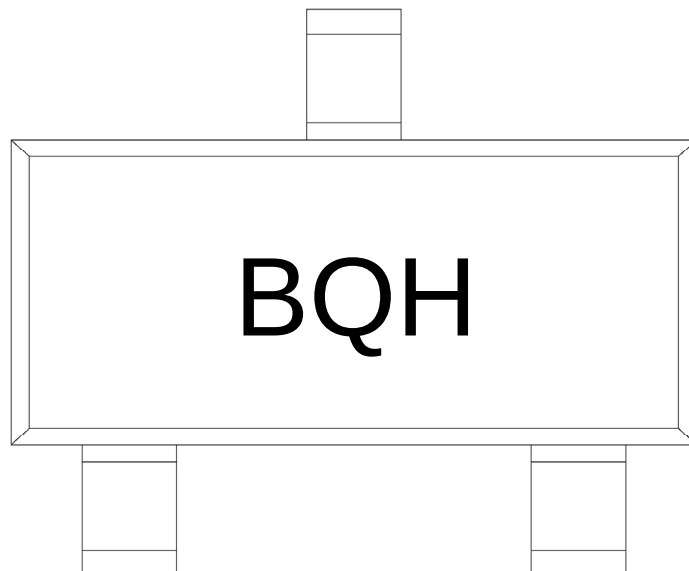
/ Package Dimensions

SOT-23

单位



/ Marking Instructions



B

Q: h_{FE}

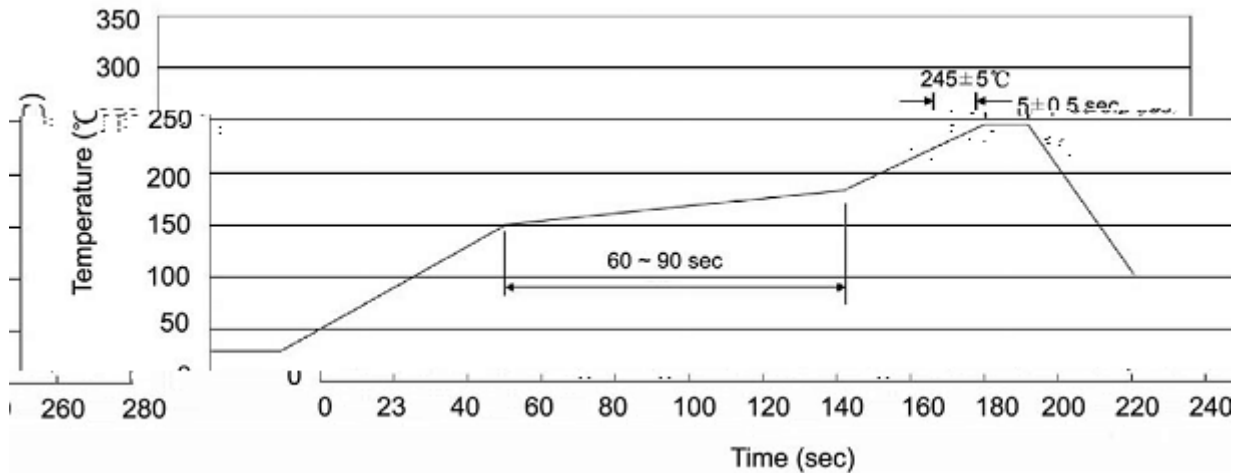
H

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