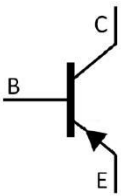


Silicon PNP transistor in a SOT-323 Plastic Package.

High  $h_{FE}$ , complements the 2SD1819A.

General amplification.

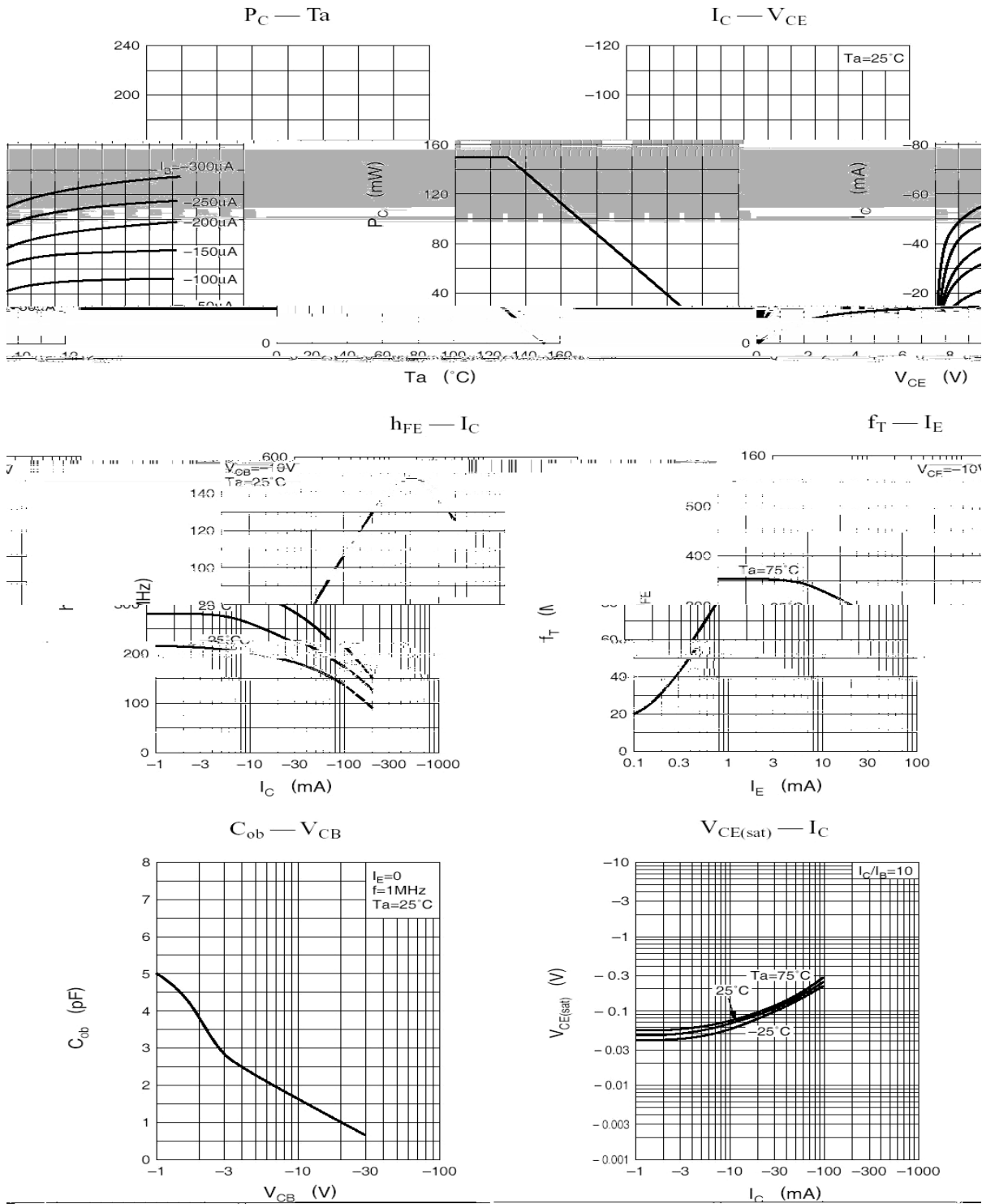


PIN1 Emitter      PIN 2 Base      PIN 3 Collector

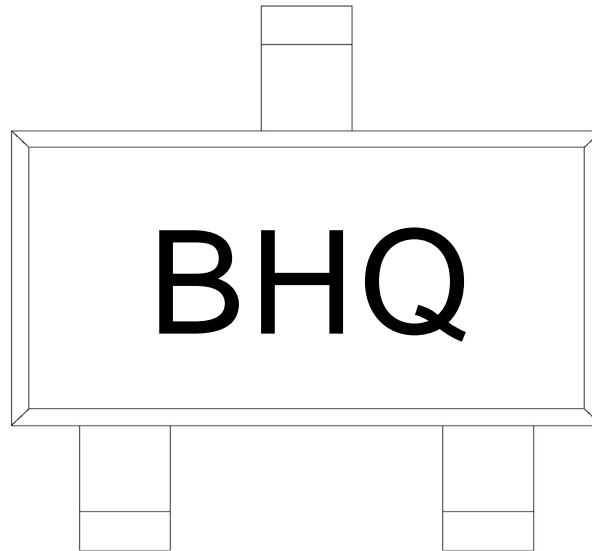
$h_{FE}$ Classifications Symbol	Q	R	S
$h_{FE}$ Range	160 260	210 340	290 460
Marking	BHQ	BHR	BHS

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	-45	V
Collector to Emitter Voltage	$V_{CEO}$	-45	V
Emitter to Base Voltage	$V_{EBO}$	-7.0	V
Collector Current - Continuous	$I_C$	-100	mA
Collector Current – Continuous(Pulse)	$I_{CP}$	-200	mA
Collector Power Dissipation	$P_C$	150	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55 150	°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	$V_{CBO}$	$I_C=-10\text{ A}$ $I_E=0$	-45			V
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=-2.0\text{mA}$ $I_B=0$	-45			V
Emitter to Base Breakdown Voltage	$V_{EBO}$	$I_E=-10\text{ A}$ $I_C=0$	-7.0			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=-20\text{V}$ $I_E=0$			-0.1	A
Emitter Base Cut-Off Current	$I_{EBO}$	$V_{CE}=-10\text{V}$ $I_B=0$			-100	A
DC Current Gain	$h_{FE}$	$V_{CE}=-10\text{V}$ $I_C=-2.0\text{mA}$	160		460	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-100\text{mA}$ $I_B=-10\text{mA}$		-0.3	-0.5	V
Transition Frequency	$f_T$	$V_{Cb}=-10\text{V}$ $f=200\text{MHz}$ $I_E=1.0\text{mA}$		80		MHz
Collector output capacitance	$C_{ob}$	$V_{CB}=-10\text{V}$ $f=1.0\text{MHz}$ $I_E=0$		2.7		pF

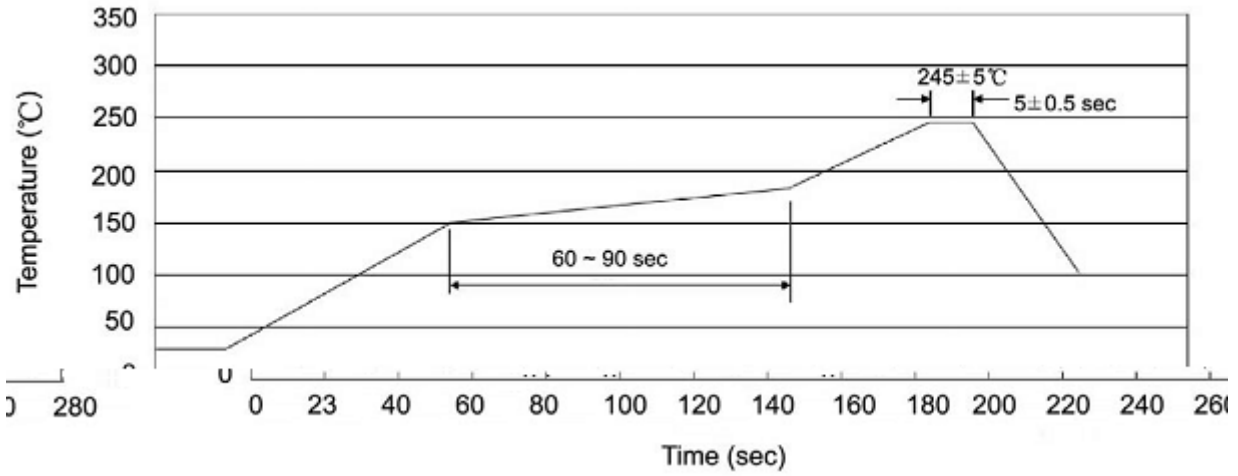






- B
  - H
  - Q             $h_{FE}$
- Note:
- B:            Product Type.
  - H:            Company Code.
  - Q             $h_{FE}$  Classifications Symbol

Temperature Profile



Note:

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

260 ± 5 °C, 10 ± 1 sec, Temp.: 260±5°C, Time: 10±1 sec

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	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-323	3,000	10	30,000	6	180,000	7 × 8	180×120×180	390×385×205