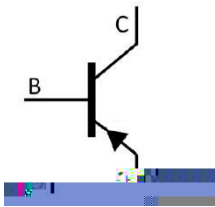


SOT-323          PNP          Silicon PNP transistor in a SOT-323 Plastic Package.

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

General amplification.

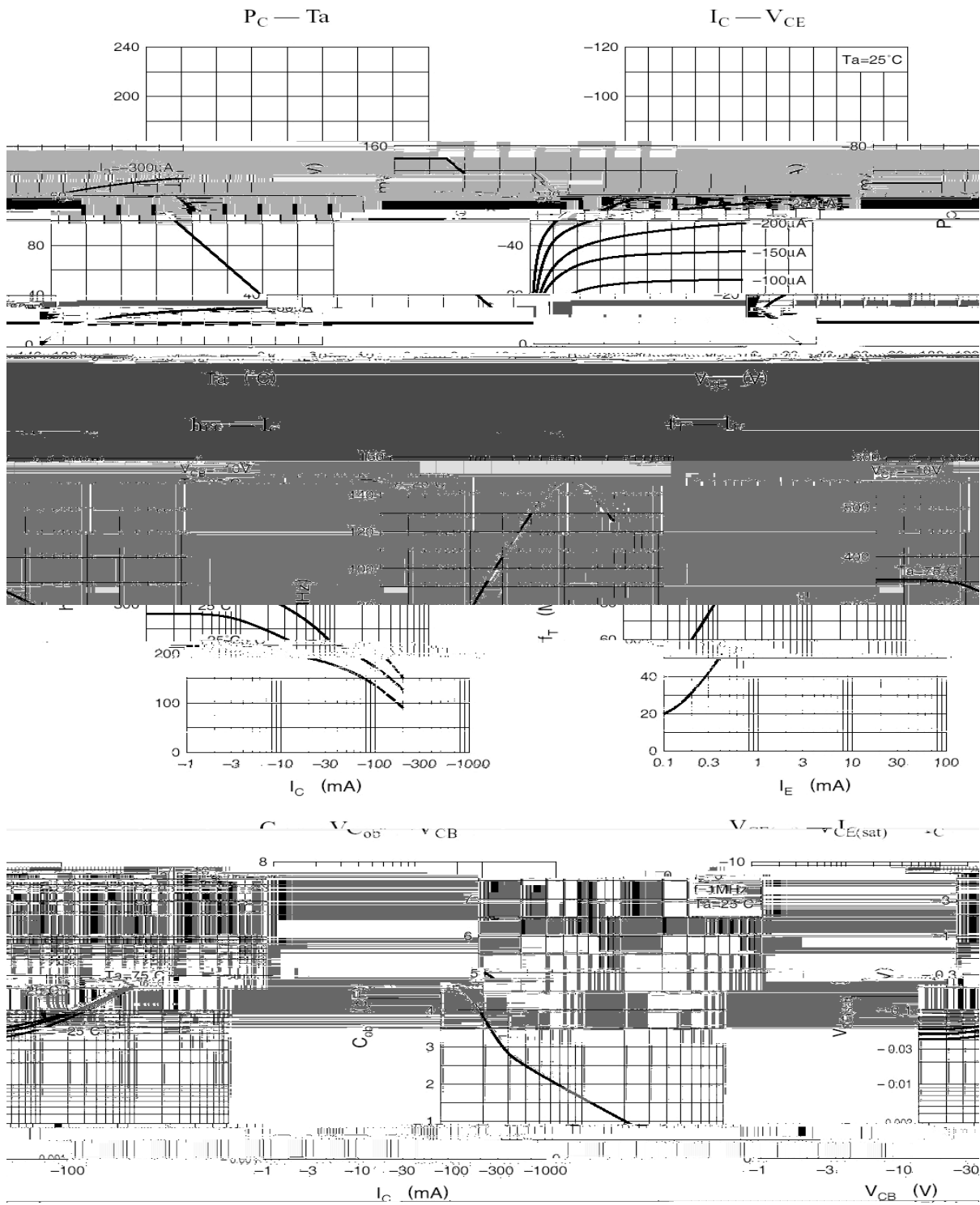


PIN1 Emitter          PIN 2 Base          PIN 3 Collector

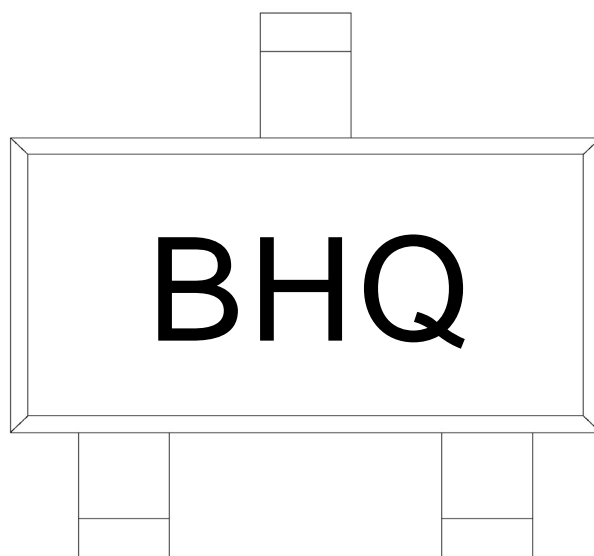
$h_{FE}$ Classifications Symbol	Q	R	S
$h_{FE}$ Range	160 260	210 340	290 460
Marking	BHQ	BHR	BHS

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	
Storage Temperature Range	$T_{stg}$	-55 150	

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             $h_{FE}$

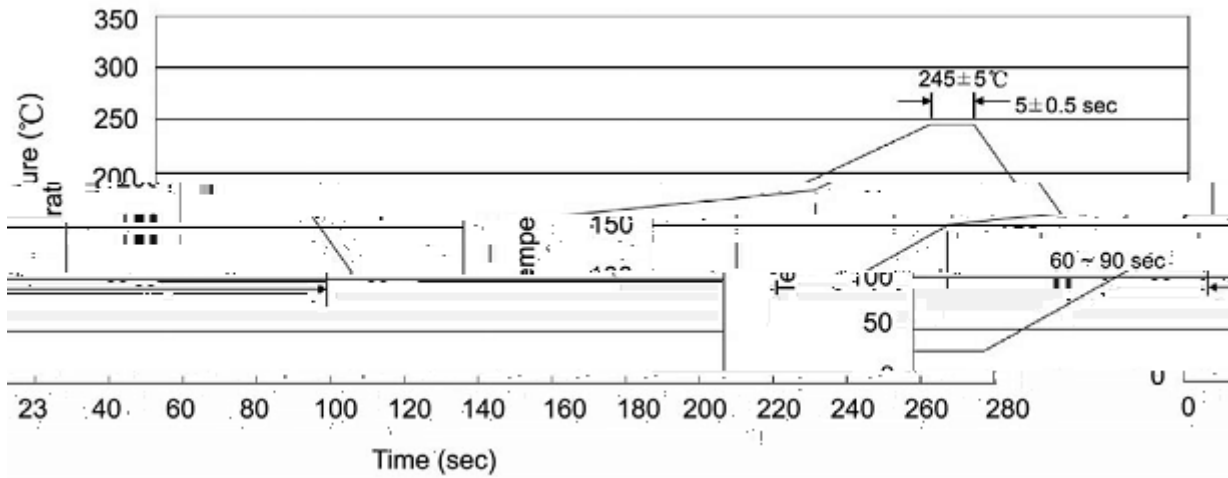
Note:

B:            Product Type.

H:            Company Code.

Q             $h_{FE}$  Classifications Symbol

## K\ d g\ i Xk i \ 'Gif ] \ d ] fi @ ' l \ ] f n J f d \ i e ^ Z G Y \$ = i \ \ z



Note:

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