2SB1218A

Rev.E Mar.-2016

蓝箭电子 BLUE ROCKET ELECTRONICS

DATA SHEET

"Yـ / Descriptions

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

◕ È / Features

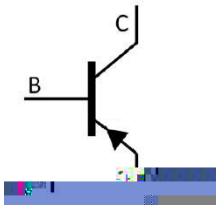
, 2SD1819A

High h_{FE}, complements the 2SD1819A.

¥ ِ / Applications

General amplification.

ЛفّQ̃ ≠ ع / Equivalent Circuit



ãـ ٰ ŭ / Pinning



PIN1 Emitter PIN 2 Base PIN 3 Collector

ł. ʜ ڈ / Marking

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

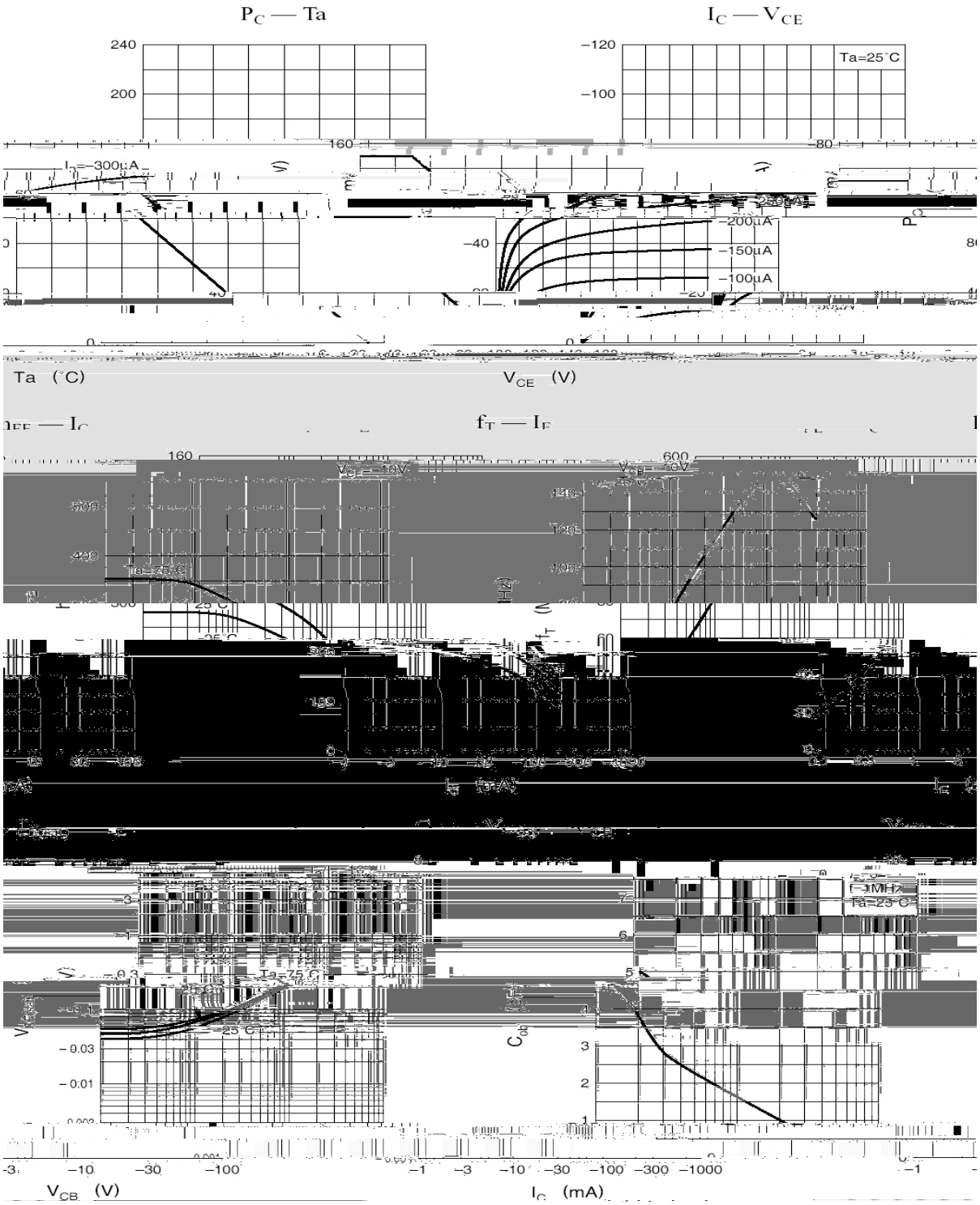
ώ ̈ Ξ ̃Ą / Absolute Maximum Ratings(Ta=25 ɹ)

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	

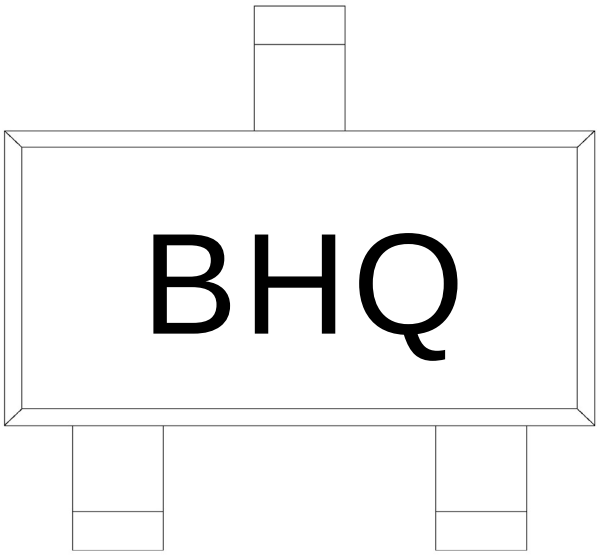
≠ ∧ Ξ ̃Ą / Electrical Characteristics(Ta=25 ɹ)

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

≠ ∃ ̃Ạ´E ∀ ƒ / Electrical Characteristic Curve



Ł. Ł'Ω / Marking Instructions



B

H

Q h_{FE}

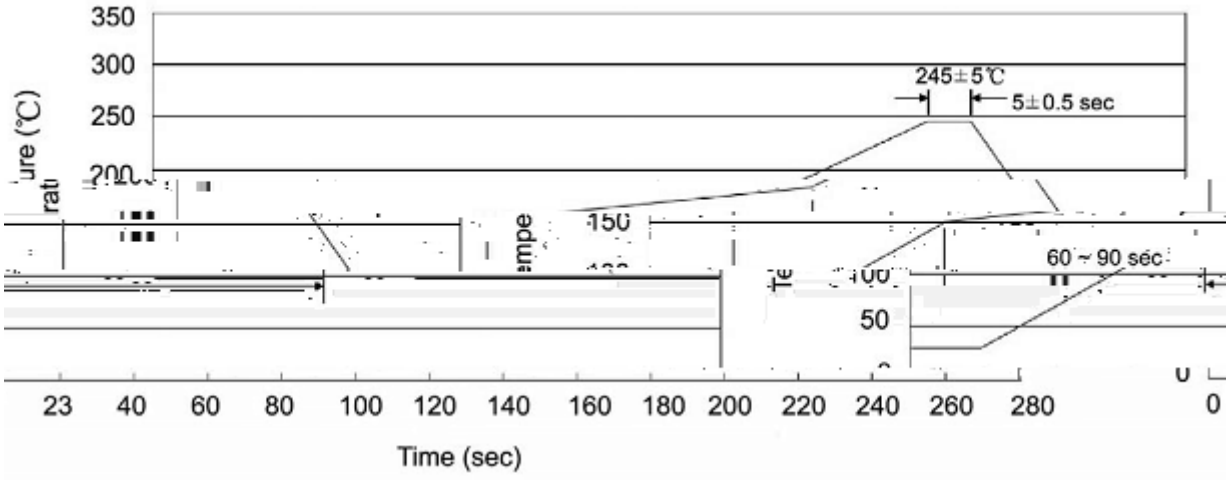
Note:

B: Product Type.

H: Company Code.

Q h_{FE} Classifications Symbol

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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.

⅃ ü q ‾ `Y Ţ / Resistance to Soldering Heat Test Conditions

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

ɒ Ŀ ≮ — / 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

ä ⅴ ŗ Ω / Notices