2SA719

Rev.E Mar.-2016

蓝箭电子 BLUE ROCKET ELECTRONICS

DATA SHEET

/ Descriptions

WR0<5 ṂṂ Ḅ SQS ÆṀ ч s ‖ ㄱ Silicon PNP transistor in a TO-92 Plastic Package.

/ Features

лъ 5VF464 : Йч ´

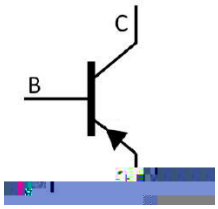
Complementary pair with 2SC1317.

/ Applications

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AF output amplifier and driver.

/ Equivalent Circuit



/ Pinning



PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

/ hFE Classifications & Marking

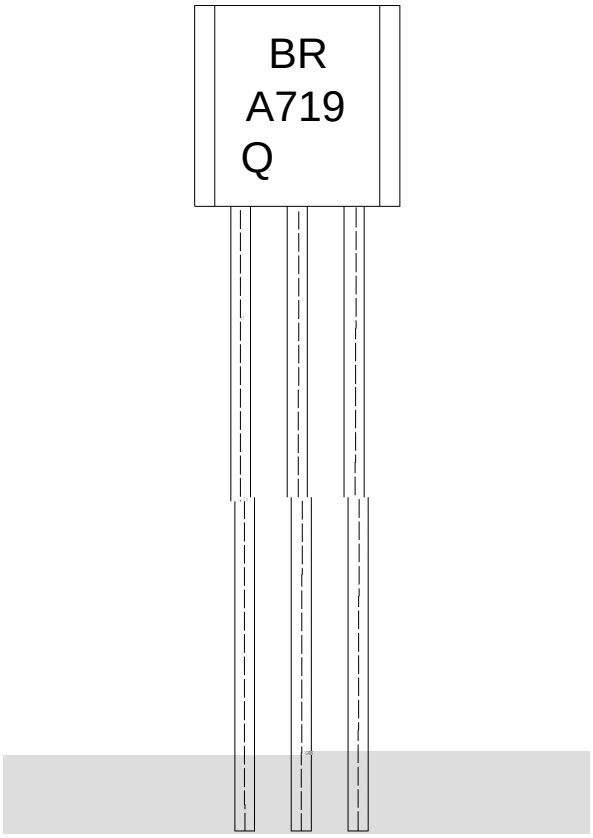
h_{FE} Classifications Symbol	Q	R	S
h_{FE} Range	85~170	120~240	170~340

v ̈Ω Parameter	ϒ N Symbol	̈Ω Ö Rating	D Ч Unit
Collector to Base Voltage	V_{CBO}	-30	V
Collector to Emitter Voltage	V_{CEO}	-25	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-500	mA
Collector Current – Continuous(Pulse)	I_{CP}	-1.0	A
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

v ̈Ω Parameter	ϒ N Symbol	‼ ⁝ † ţ Test Conditions	ώ ή Ö Min	Ɛ ʒ Ö Typ	ώ ² Ö Max	D Ч Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=-10μA I_E=0	-30			V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=-10mA I_B=0	-25			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=-10μA I_C=0	-5.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-20V I_E=0			-0.1	μA
DC Current Gain	$h_{FE(1)}$	V_{CE}=-10V I_C=-150mA	85		340	
	$h_{FE(2)}$	V_{CE}=-10V I_C=-500mA	40			

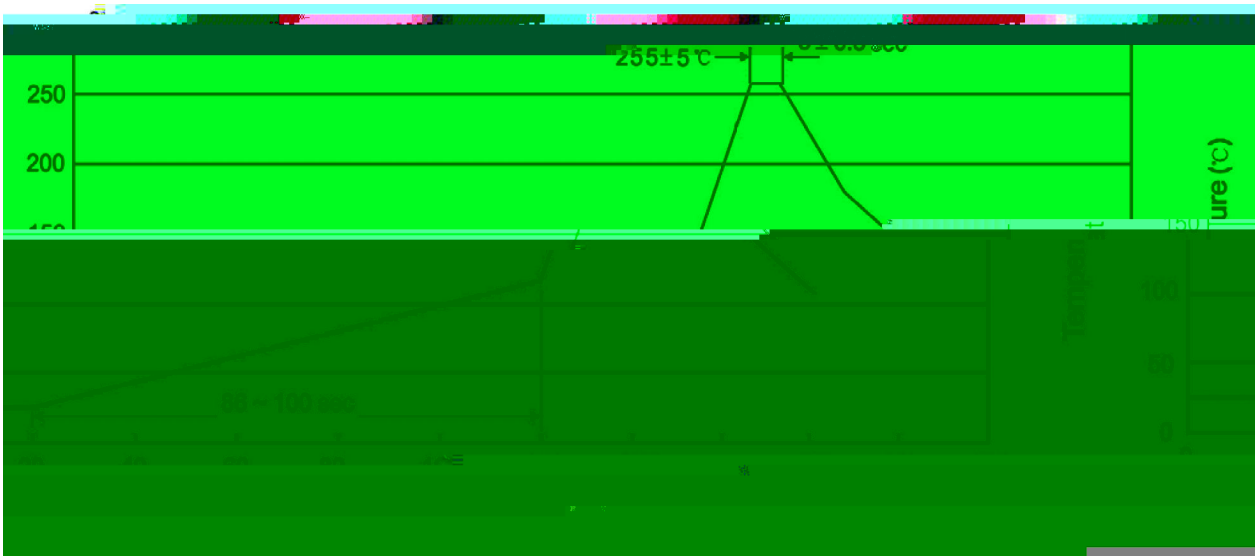
Collector to Emitter Saturation

/ Marking Instructions



ِ ˝ χ	
EU=	ѭ ϗ и Ґ
D : 4< χ	ѭ ϳ N ϳ N
T=	ѭ h_{FE} ‘ 6 Ґ
---- χ	ѭ ı ғ ӈ N Ґ ı ₴ ı ғ ӈ N Ψ ϼ
Note:	
BR:	Company Code.
A719:	Product Type.
Q:	h_{FE} Classifications Symbol
****:	Lot No. Code,code change with Lot No.

( ) / Temperature Profile for Dip Soldering(Pb-Free)



ب ˝ χ

1 Ĺ ♬ □ ỷ 25 Ḱ 150 ɬ ı ˋH ڑ 60 Ḱ 90sec;

2 Š Ö □ ỷ 255 ° 5 ɬ ı ˋH ڑ ˋY ﾊ ㎛ 5 ° 0.5sec;

3 ì ˙ ϒ ˛ ɔ ﻩ ỷ ㎛ 2 Ḱ 10 ɬ /sec.

Note:

1.Preheating:25~150 ɬ , Time:60~90sec.

2.Peak Temp.:255 ° 5 ɬ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɬ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 270 ° 5 ɬ	ˋH ڑ χ 10 ° 1 sec.	Temp:270±5	Time:10±1 sec

/ Packaging SPEC.

ˈQ ţ ϒ Ł / BULK

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