

# BR2SC4081WQ

Rev.A Apr.-2023

## / Descriptions

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

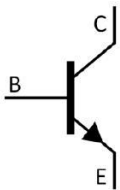
## / Features

AEC-Q101  
Low  $C_{ob}$ , Qualified to AEC-Q101 Standards for High Reliability, HF Product.

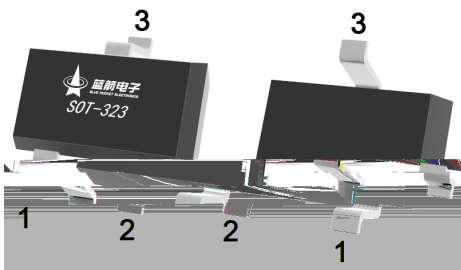
## / Applications

General amplifier, Meet the stringent requirements of automotive applications.

## / Equivalent Circuit



## / Pinning



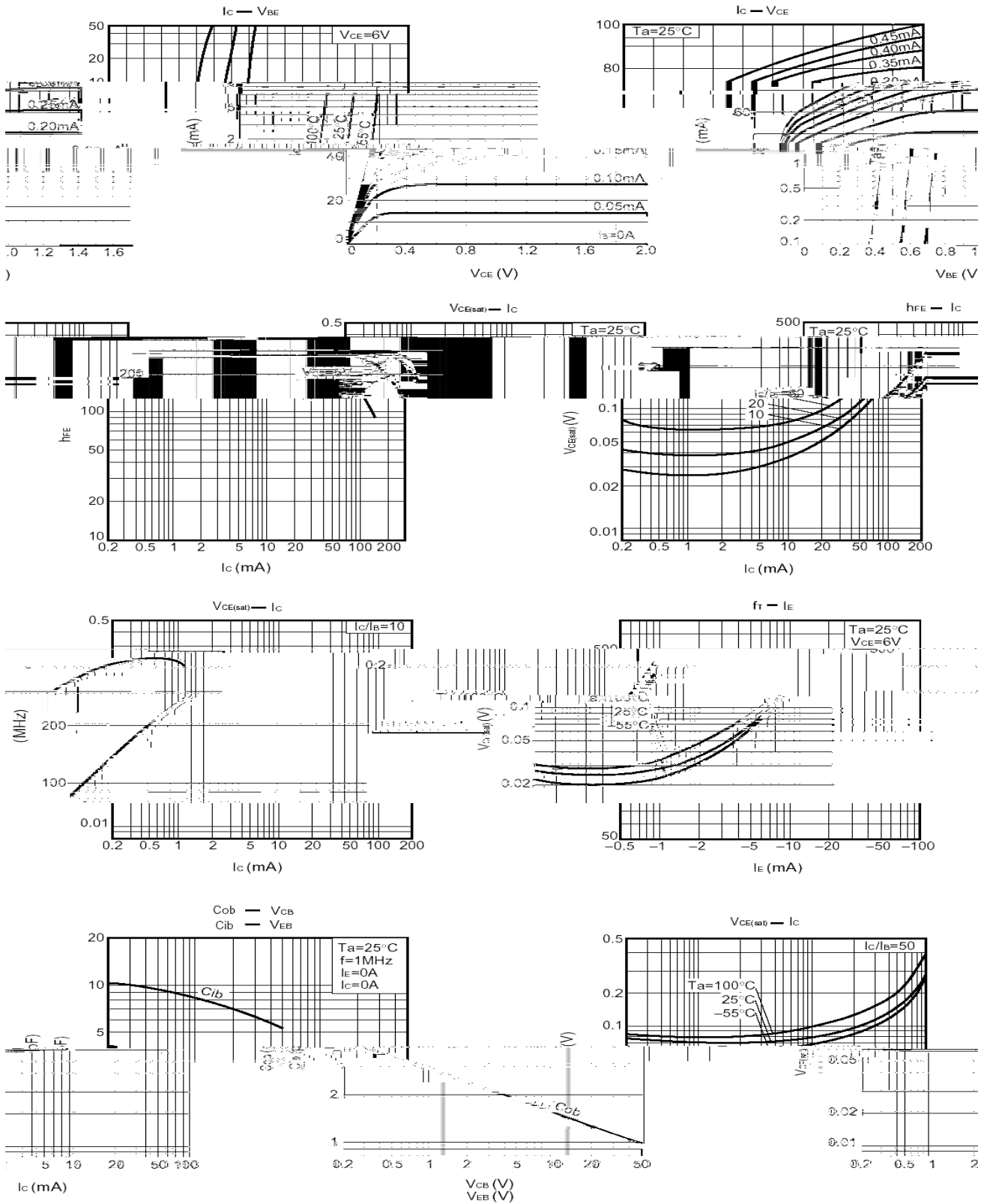
PIN1 Base          PIN 2 Emitter          PIN 3 Collector

## / $h_{FE}$ Classifications & Marking

$h_{FE}$ Classifications Symbol	Q	R	S
$h_{FE}$ Range	120~270	180~390	270~560
Marking	QBQ	QBR	QBS

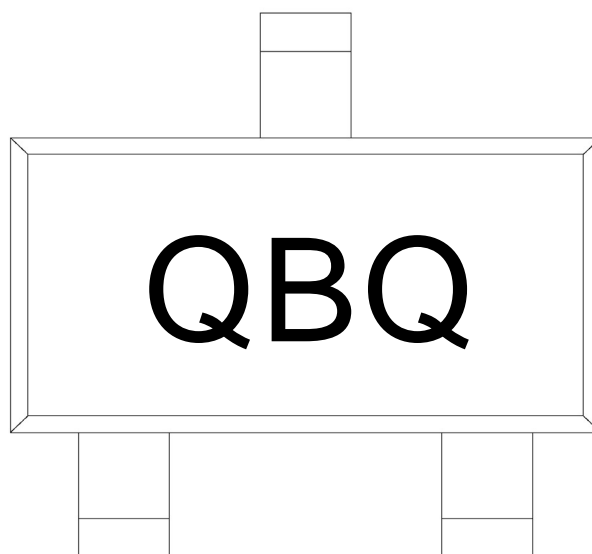
Parameter

/ Electrical Characteristic Curve



**BR2SC4081WQ**

**/ Marking Instructions**



Q

B

Q

$h_{FE}$

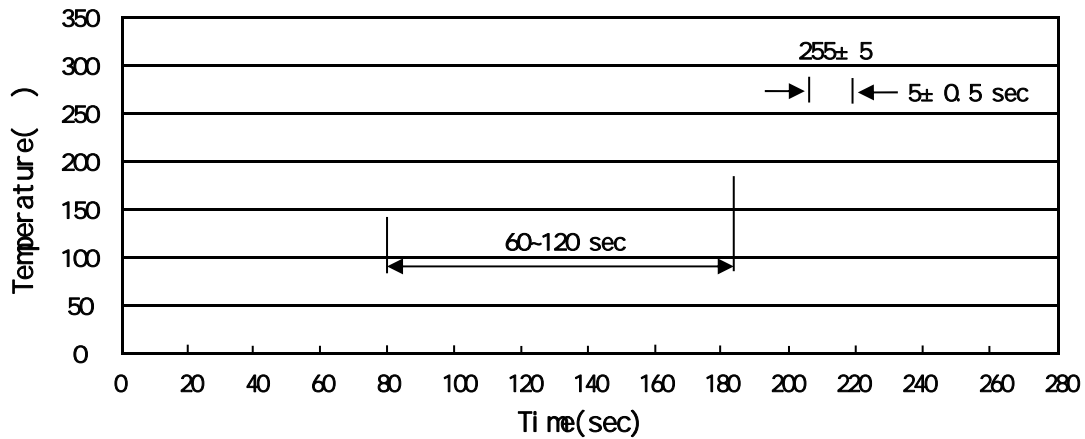
Note:

Q: Automobile halogen-free product Code

B: Product Type

Q:  $h_{FE}$  Classifications Symbol

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1            150 200            60 120sec;        1.Preheating:150~200 , Time:60~120sec.
- 2            255±5                    5±0.5sec;        2.Peak Temp.:255±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	Units					Dimension (unit mm <sup>3</sup> )		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-323	3,000	10	30,000	6	180,000	7" x8	180x120x180	390x385x205

/ Notices