

# BRMMBT3904Q

Rev.B May.-2025

## / Descriptions

SOT-23

NPN

Silicon NPN transistor in a SOT-23 Plastic Package.

## / Features

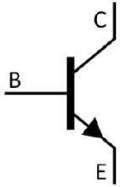
AEC-Q101

Low current, Low voltage, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

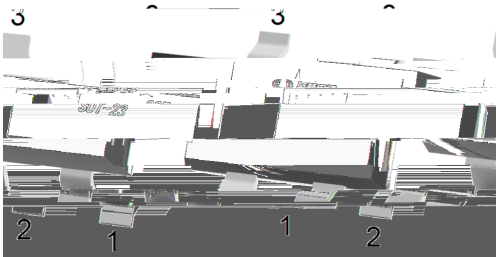
## / Applications

General purpose amplifier and switching, Meet the stringent requirements of automotive applications.

## / Equivalent Circuit



## / Pinning



PIN 1 Base

PIN 2 Emitter

PIN 3 Collector

## / hFE Classifications & Marking

hFE Range	100 300
Marking	· Q1A

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DATA SHEET

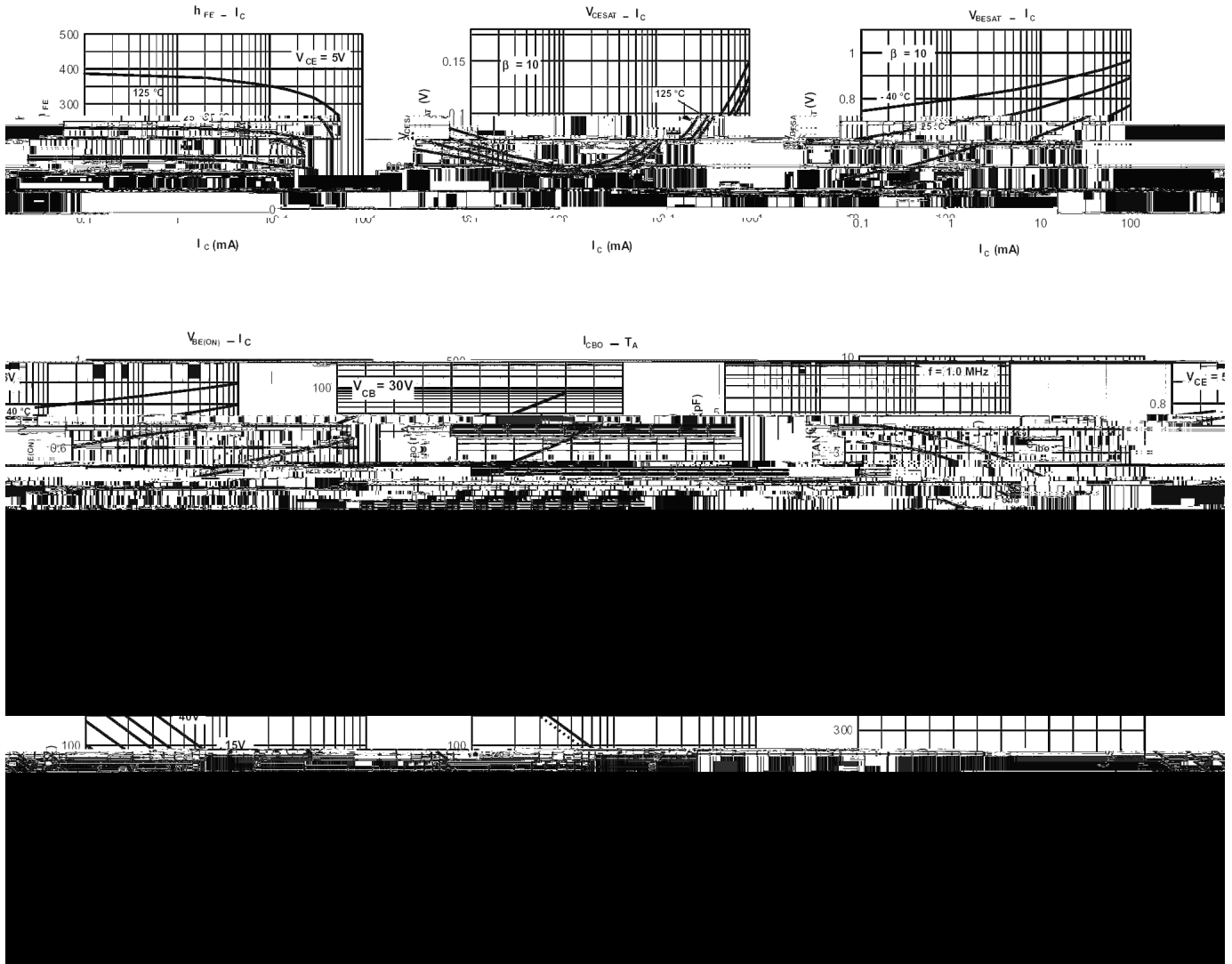
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	60	V
Collector to Emitter Voltage	$V_{CEO}$	40	V
Emitter to Base Voltage	$V_{EBO}$	6.0	V
Collector Current	$I_C$	200	mA
Collector Power Dissipation	$P_C$	200	mW
Collector Power Dissipation	* $P_C$	350	mW
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

\* 7×5×0.6mm

\*When mounted on a 7×5×0.6mm ceramic board

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	$V_{CBO}$	$I_C=10\mu A$ $I_E=0$	60			V
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C=1.0mA$ $I_B=0$	40			V

/ Electrical Characteristic Curve



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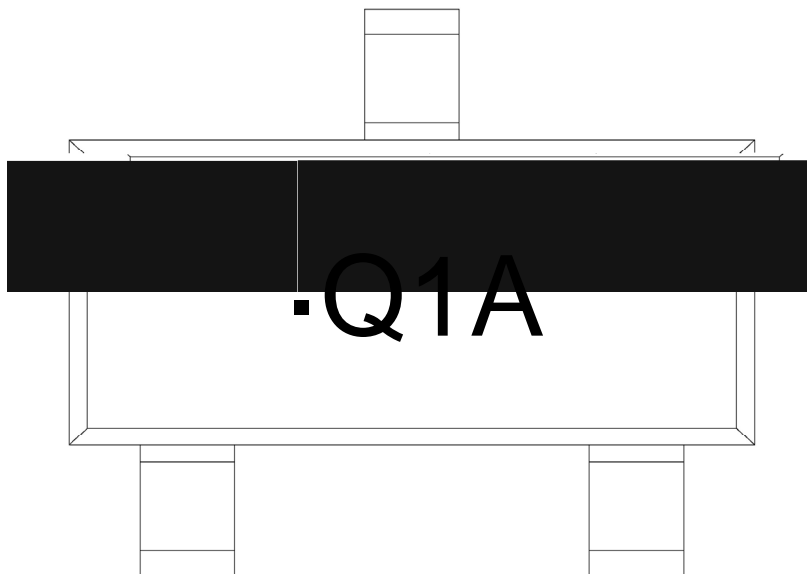


蓝箭电子  
BLUE ROCKET ELECTRONICS

DATA SHEET

## / Package Dimensions

**/ Marking Instructions**



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Q

1A

Note:

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Identify

Q: Automobile halogen-free product Code

1A Product Type Code

( ) / 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	