## / Revised record

| | | | | | |
|---|---|---|---|---|---|
| G | 2018-8 | | | | |
| H | 2020-5-26 | 1 | | | |
| A | 2021-12-23 | all | BR Q<br>AEC-Q101<br>, H Q<br>245±5℃ 5<br>±0.5sec 255±<br>5℃ 5±0.5sec | | |
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| | | | | | |

# BRMMBT2222AQ

Rev.A Dec.-2021

DATA SHEET

## / Descriptions

SOT-23 NPN Silicon NPN transistor in a SOT-23 Plastic Package.

## / Features

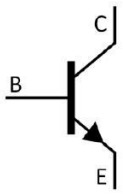
600mA AEC-Q101

Collector currents up to 600 mA, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

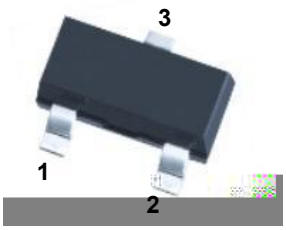
## / Applications

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

## / Equivalent Circuit




## / Pinning

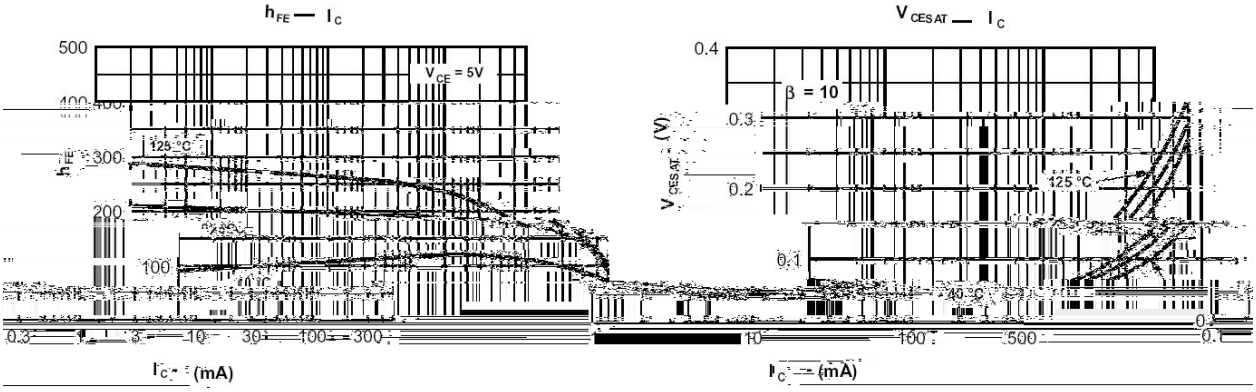


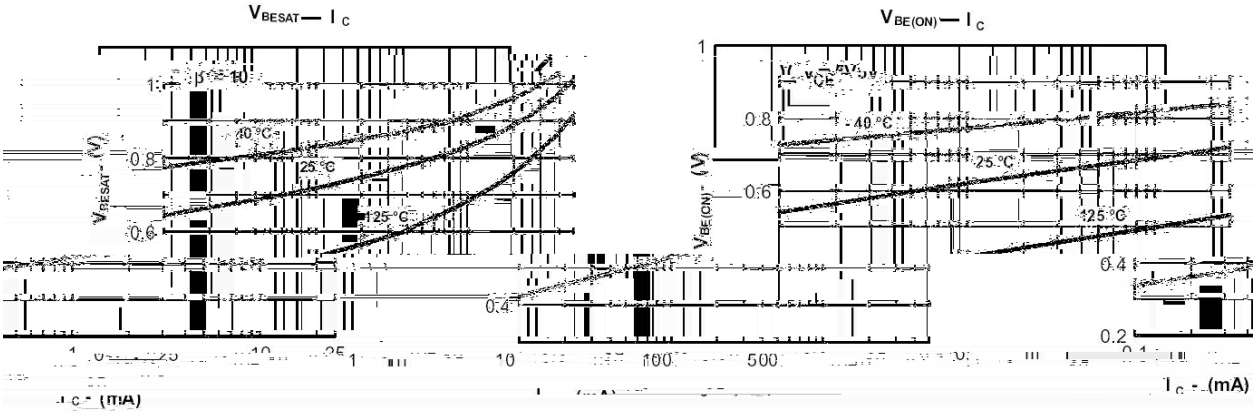

PIN 1 Base PIN 2 Emitter PIN 3 Collector

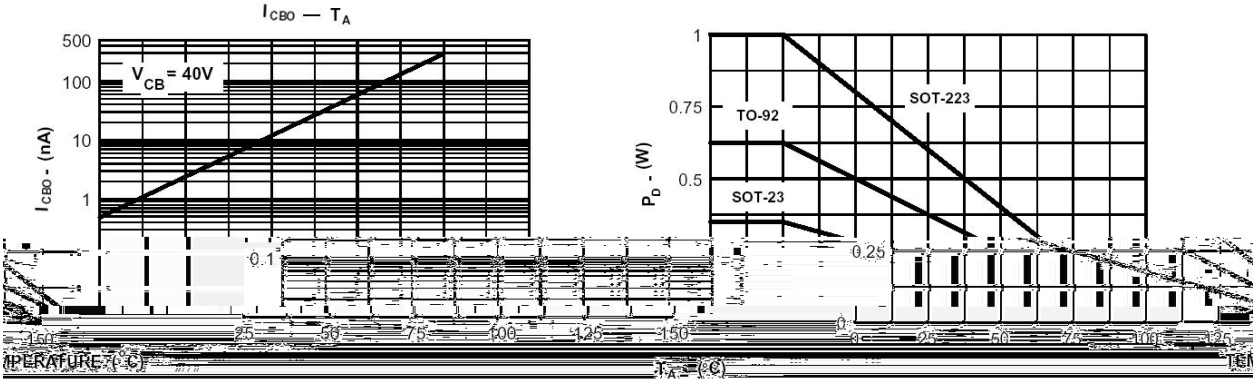
## / $h_{FE}$ Classifications & Marking

| | |
|---|---|
| $h_{FE}$ Range | 100～300 |
| Marking | Q1P |

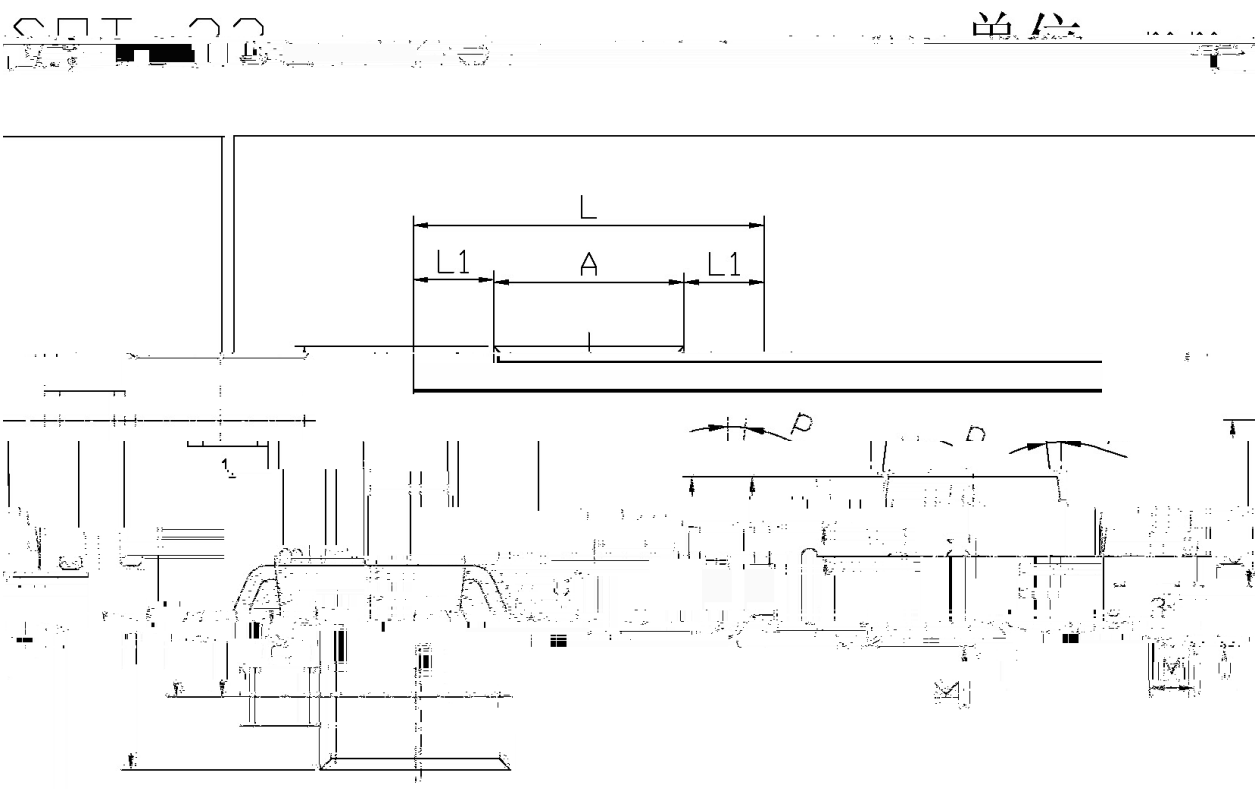
## / Electrical Characteristic Curve



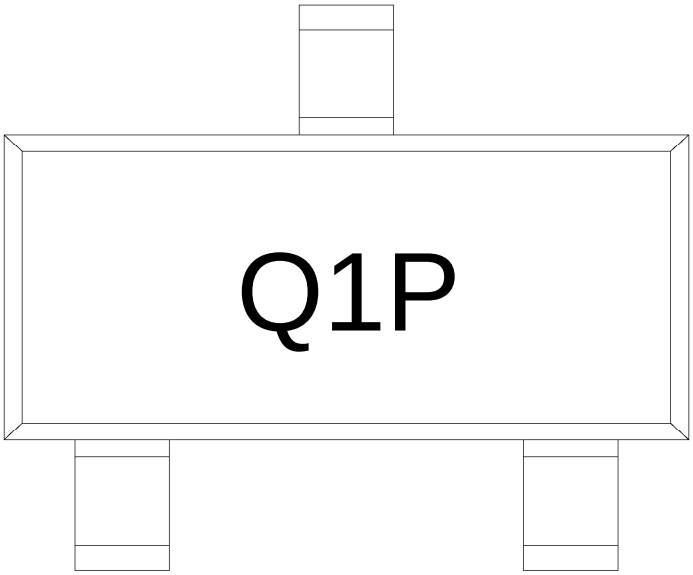
## / Package Dimensions




| Symbol | Min | Max |
|---|---|---|
| 0.91 | 1.20 | |
| c | 0.05 | 0.20 |
| K | 0 | 0.10 |
| M | 0.20MIN | |
| P | 7° | |

| Symbol | Min | Max |
|---|---|---|
| L1 | 0.45 | 0.65 |
| A | 1.15 | 1.50 |
| B | 2.70 | 3.10 |
| E | 1.70 | 2.10 |
| E1 | 0.85 | 1.05 |
| b | 0.35 | 0.55 |

## / Marking Instructions




Q

1P

Note:

Q: Automobile halogen-free product Code

1P Product Type Code

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

说明：

1、预热温度 150～200℃，时间 60～120sec;

2、峰值温度 255±5℃，时间持续为 5±0.5sec;

3、焊接制程冷却速度为 2～10℃/sec.

Note:

1.Preheating:150~200℃, Time:60~120sec.

2.Peak Temp.:255±5℃, Duration:5±0.5sec.

3. Cooling Speed: 2~10℃/sec.

## / Resistance to Soldering Heat Test Conditions

温度：260±5℃ 时间：10±1 sec. Temp.:260±5℃ Time:10±1 sec

## / Packaging SPEC.

卷盘包装 / REEL

| Package Type 封装形式 | Units 包装数量 | | | | | Dimension 包装尺寸 (unit: $mm^3$) | | |
|---|---|---|---|---|---|---|---|---|
| | 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 |