

/ Revised record

G	2018-8				
H	2020-5-26	1			
A	2021-12-23	all	BR Q AEC-Q101 , H Q 245±5°C 5 ±0.5sec 255± 5°C 5±0.5sec		



/ Descriptions

SOT-23

NPN

Silicon NPN transistor in a SOT-23 Plastic Package.

/ Features

600mA

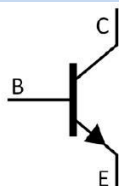
AEC-Q101

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

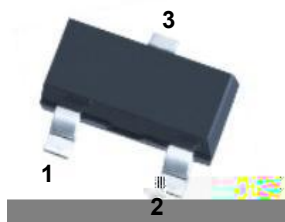
/ Applications

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

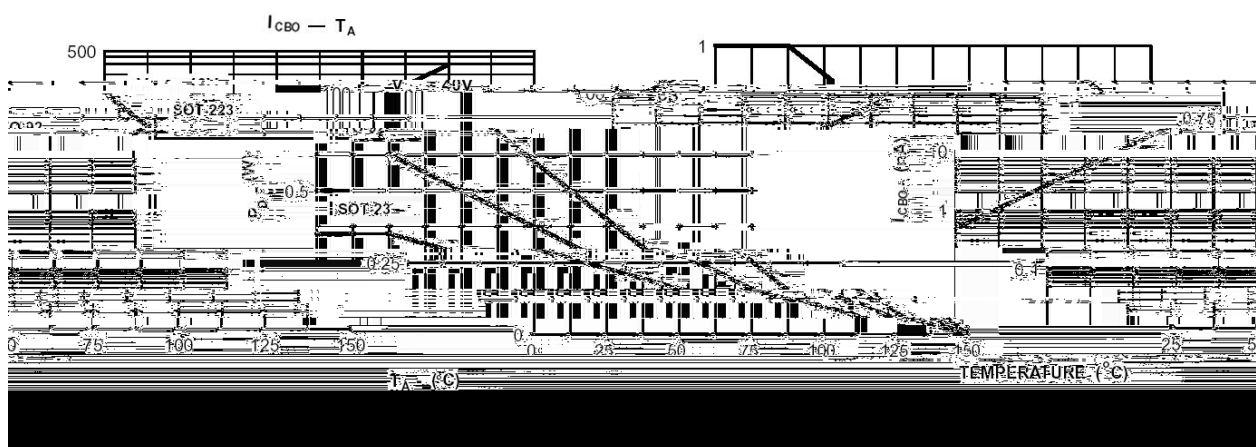
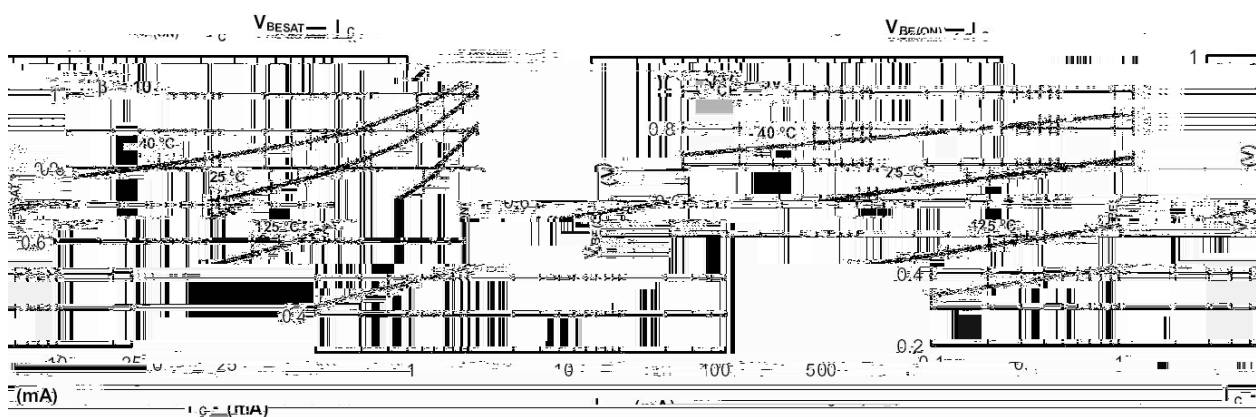
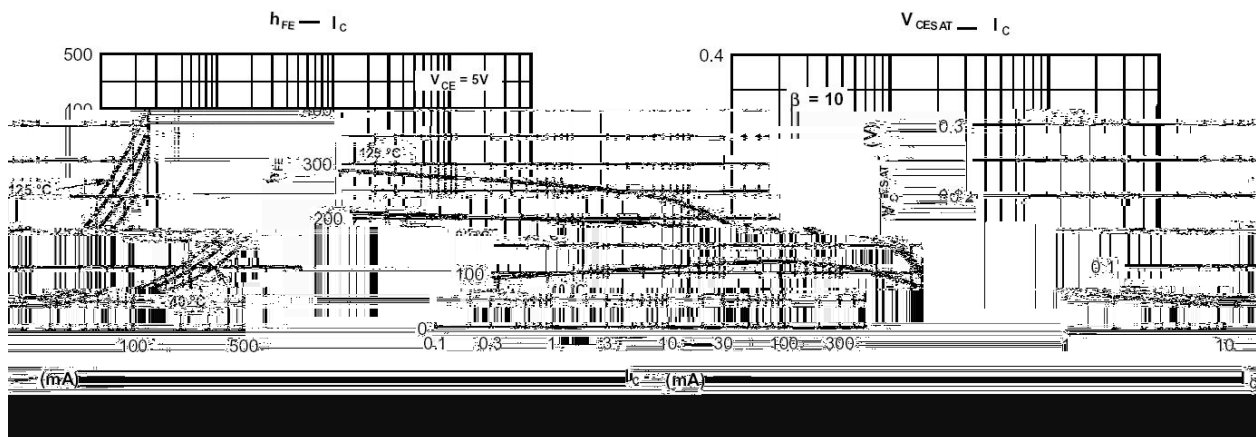
h_{FE} Range	100~300
Marking	Q1P

BRMMBT2222AQ

Rev.A Dec.-2021

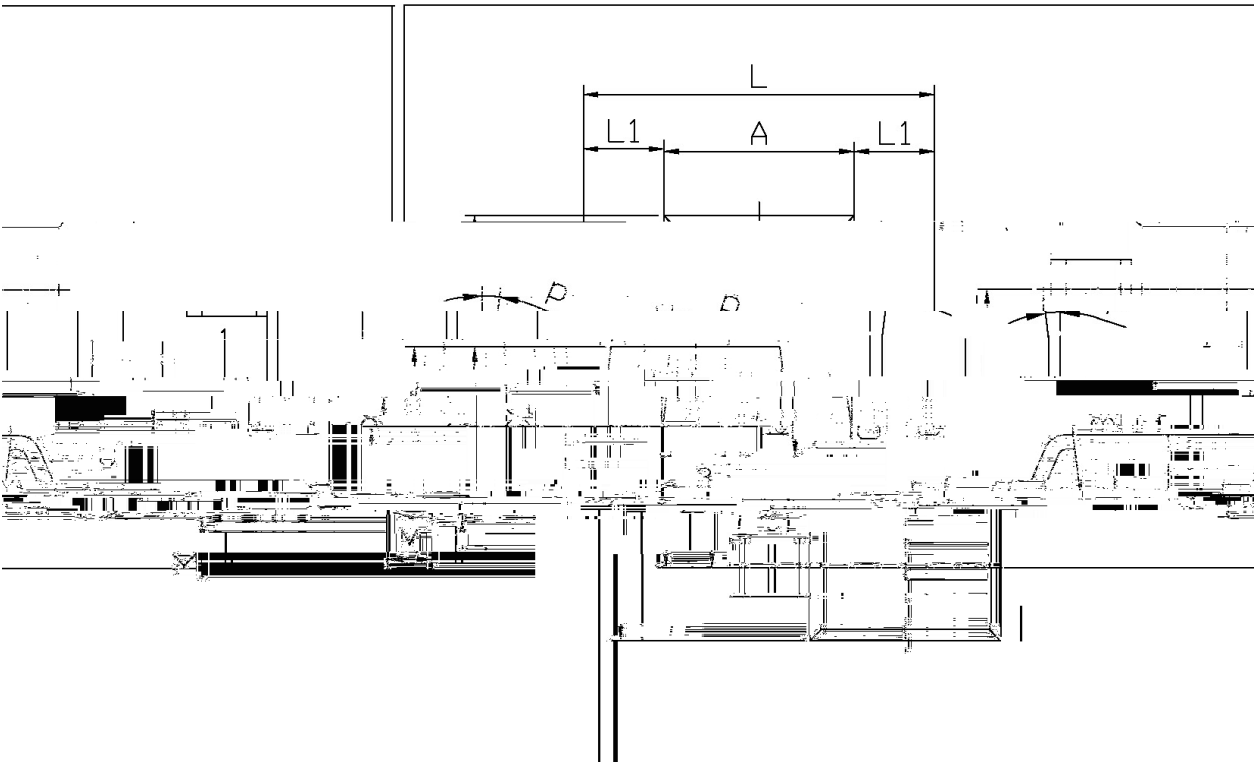
DATA SHEET

/ Electrical Characteristic Curve

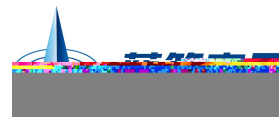


/ Package Dimensions

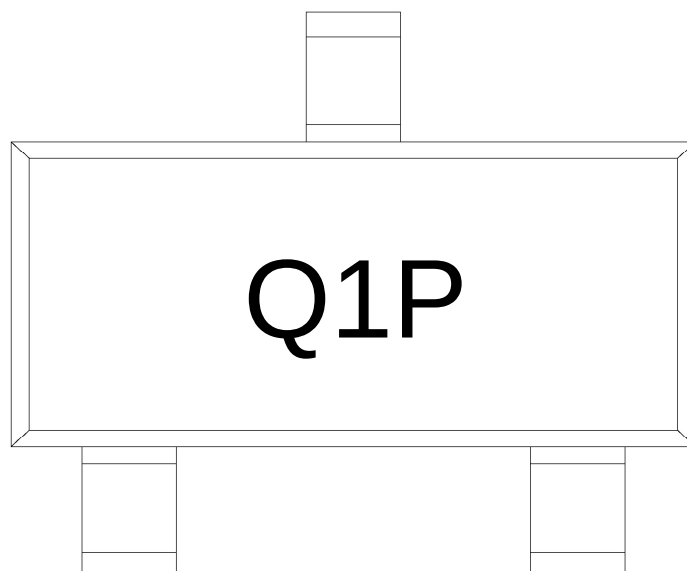
单位: mm



Dimensions in millimeters			Dimensions in inches		
Symbol	Min	Max	Symbol	Min	Max
L	1.27	1.50	L	0.050	0.059
A	1.27	1.50	A	0.050	0.059
B	2.76	3.40	B	0.108	0.134
E	1.70	2.50	E	0.067	0.099
E1	3.85	4.95	E1	0.152	0.195
b	0.35	0.55	b	0.014	0.022



/ Marking Instructions



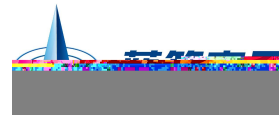
Q

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	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
封装形式	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