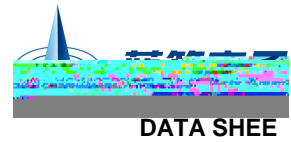


BRMMBT5551Q

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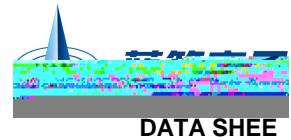
版本	修订日期	有修订的页码	修订涉及的内容	拟制	审核
F	2017-4				
GJ	2020-5-21	1	特征栏增加无卤标示	谢小倩 ₄	刘晓荣
HJ	2021-4-26	2	$P_C = 500mV$ 改为 $300mV$	黄超	刘晓荣

型号加 BR/Q-, 特征及应用增加汽车产品描述 (符合 AEC-Q101 标准高可靠性要求、满足汽车应用的严格要求), 印章 H 改为 Q, 峰值温度 245 ± 5 , 时间持续为 $5 \pm 0.5sec$ 更新为: 峰值温度 255 峰

A 2022-4-23 all

BRMMBT5551Q

Rev.A Apr.-2022



DATA SHEET

/ Descriptions

Silicon NPN transistor in a SOT-23 Plastic Package.

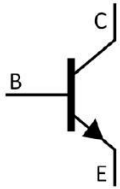
/ Features

High voltage, complementary pair with BRMMBT5401Q, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

/ Applications

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

/ Equivalent Circuit



/ Pinning



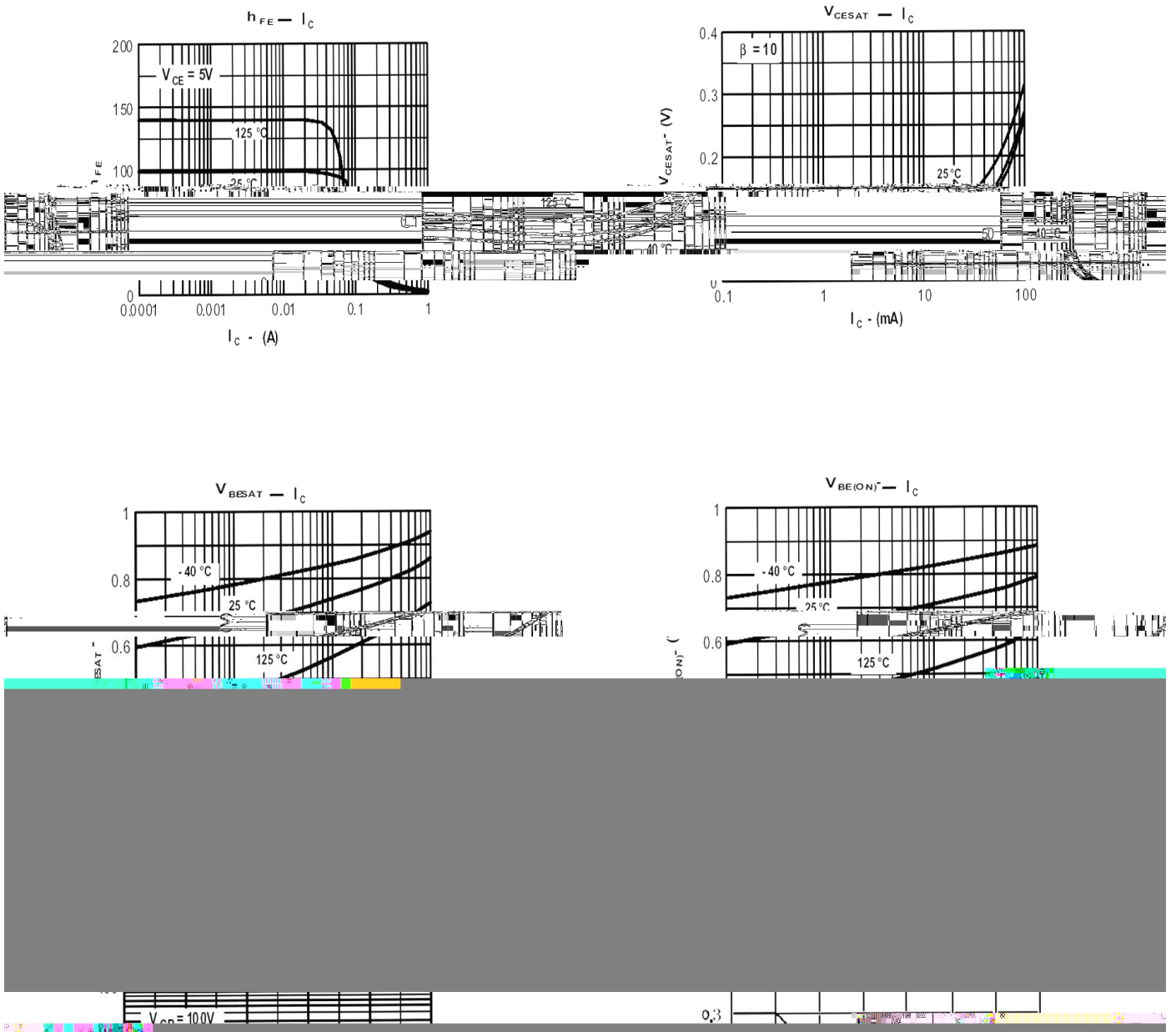
PIN1 Base PIN 2 Emitter PIN 3 Collector

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	A	B	C
h_{FE} Range	50~150	100~300	200~400
Marking	QG1A	QG1B	QG1C

			Unit
Collector to Base Voltage	CBO		

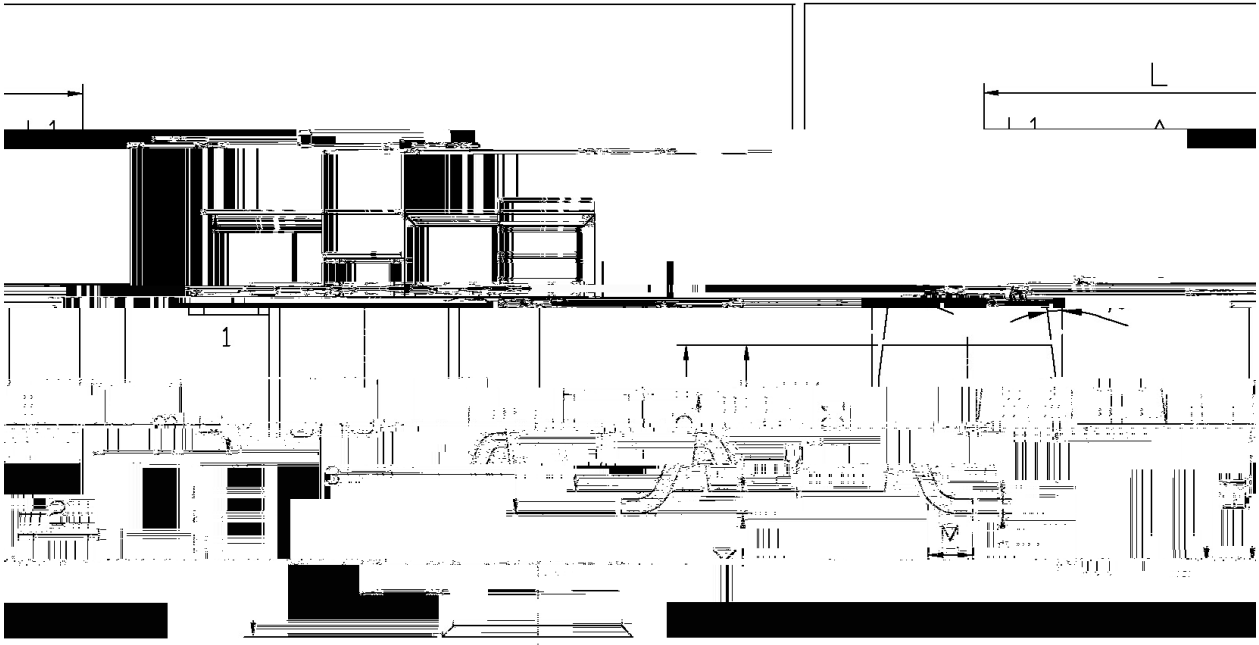
/ Electrical Characteristic Curve



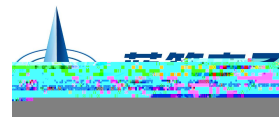
/ Package Dimensions

SOT-23

单位: mm



Dimensions In Micrometers		Dimensions In Micrometers		Symbol		Symbol	
Min	Max	Min	Max	Min	Max	Min	Max
		L1	0.45	0.65	85	0.90	1.20
50	110	0.05	0.20	A	0.25	0.35	
40	100	0.10	0.10	B	270	3	
	0.70	0.20	0.20	M	0.20	0.20	
	0.60	0.20	0.20	P	0.20	0.20	
8	0.35	0.55					



/ Marking Instructions



Q

G1

A h_{FE}

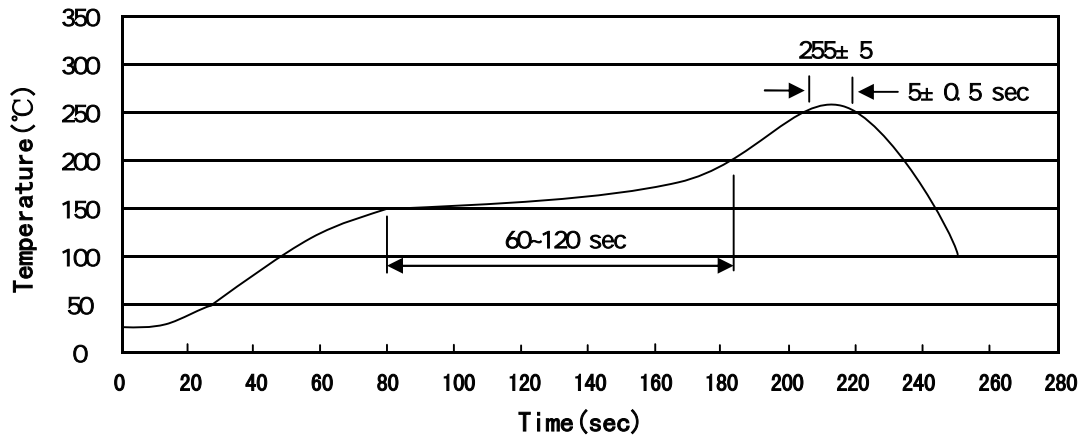
Note:

Q: Automobile halogen-free product Code

G1 Product Type Code

A h_{FE} Classifications Symbol Code

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



Note:

- 1 150 200 60 120sec; 1.Preheating:150~200°C, Time:60~120sec.
- 2 255±5 5±0.5sec; 2.Peak Temp.:255±5°C, Duration:5±0.5sec.
- 3 2 10°C/sec. 3. Cooling Speed: 2~10°C/sec.

/ Resistance to Soldering Heat Test Conditions

260±5°C 10±1 sec. Temp.:260±5°C Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (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	Outer Box
SOT-23	3,000	10	30,000	6	180,000	7" ×8	180×120×180	390×385×205

/ Notices