



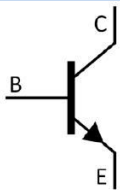
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|--|--|--|--|--|



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

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

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



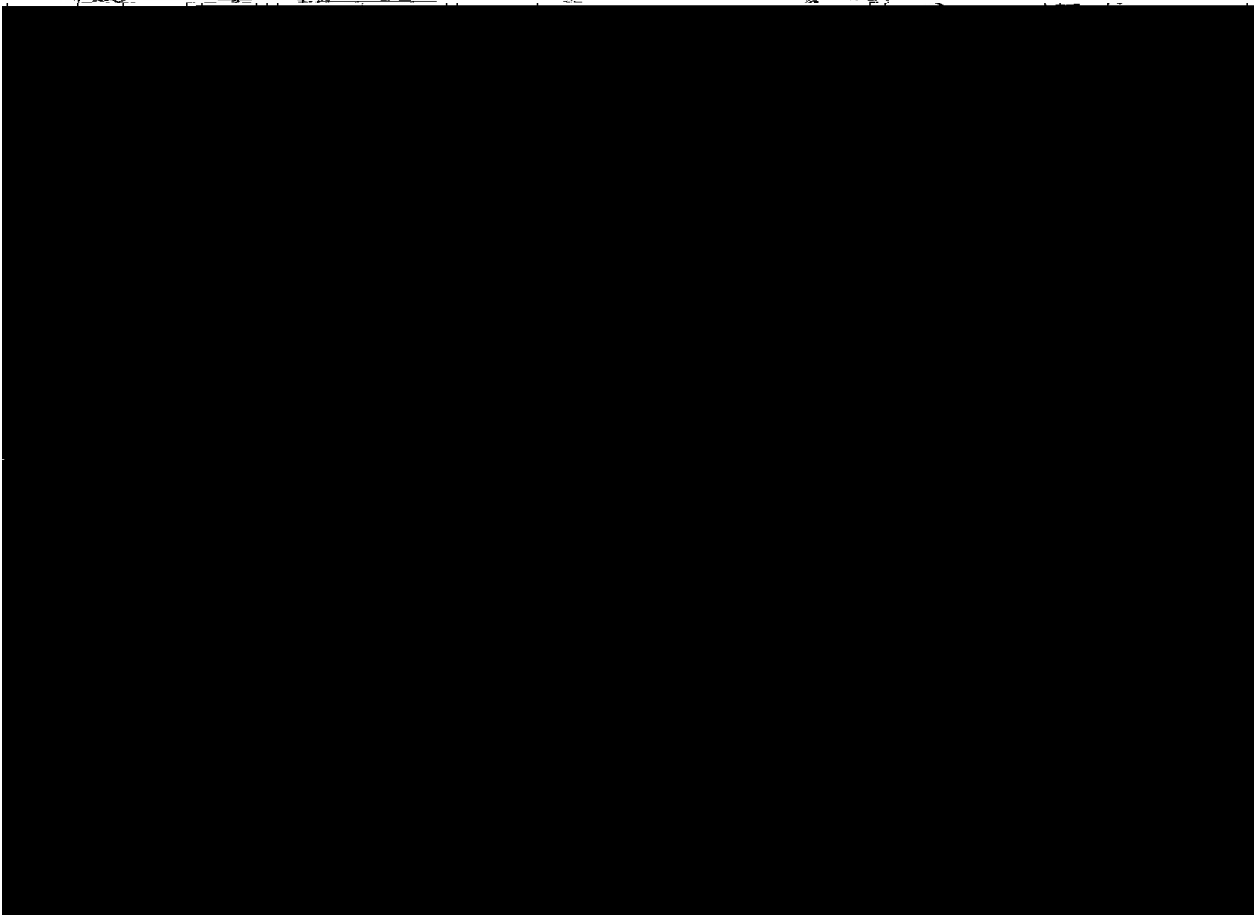
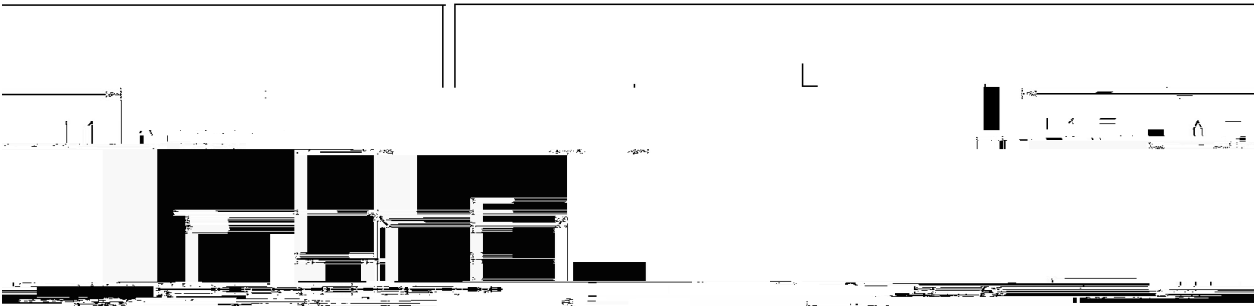
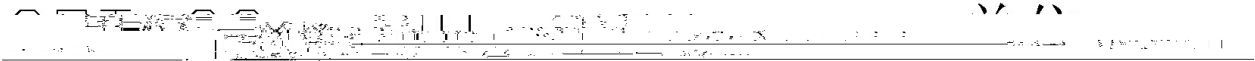
PIN1    Base                      PIN 2    Emitter                      PIN 3    Collector

|                                           |           |            |            |
|-------------------------------------------|-----------|------------|------------|
| h <sub>FE</sub> Classifications<br>Symbol | A         | B          | C          |
| h <sub>FE</sub> Range                     | 50    150 | 100    300 | 200    400 |
| Marking                                   | QG1A      | QG1B       | QG1C       |



| Parameter                 | Symbol | Rating | Unit |
|---------------------------|--------|--------|------|
| Collector to Base Voltage | V      |        |      |







QG1A

Q

G1

A  $h_{FE}$

Note:

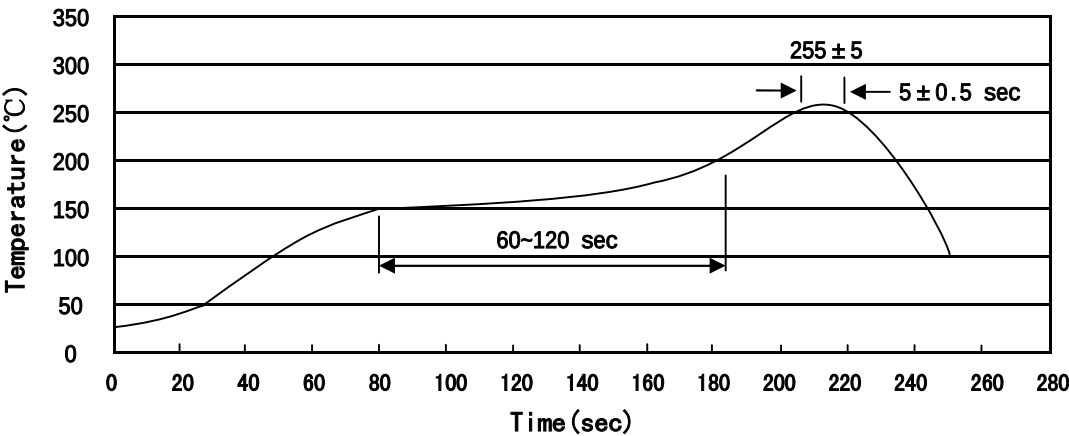
Q: Automobile halogen-free product Code

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.

260±5°C

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

| Package Type | Units              |                         |                        |                              |                        | Dimension (unit mm <sup>3</sup> ) |             |             |
|--------------|--------------------|-------------------------|------------------------|------------------------------|------------------------|-----------------------------------|-------------|-------------|
|              | Units/Reel<br>只/卷盘 | Reels/Inner Box<br>卷盘/盒 | Units/Inner Box<br>只/盒 | Inner Boxes/Outer Box<br>盒/箱 | Units/Outer Box<br>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 |