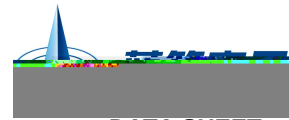


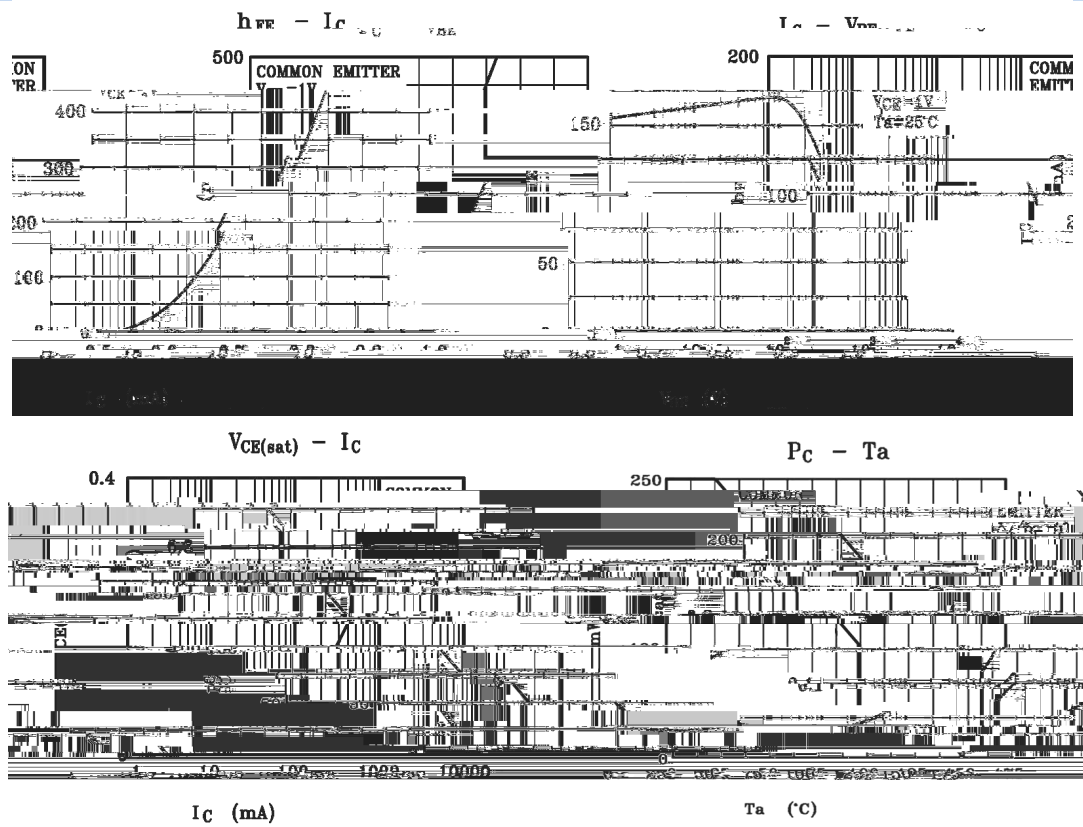
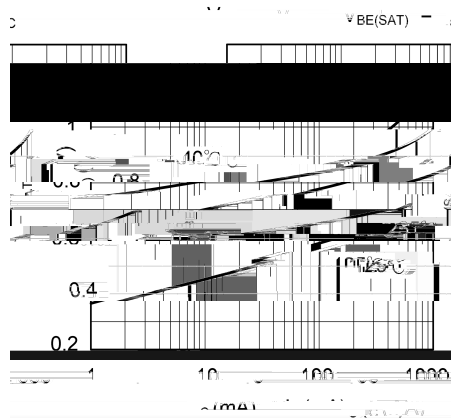
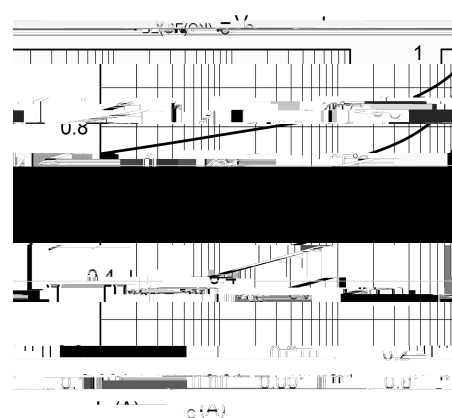
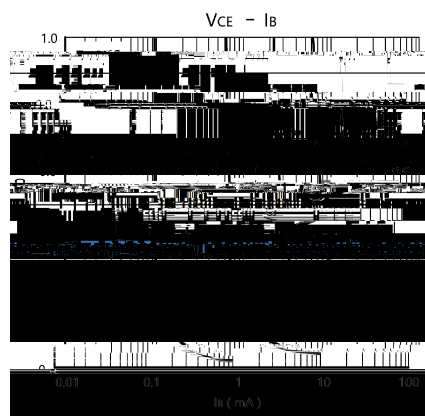
|   | ! " #       | \$ ! % & ' | ! ( ) % * +                                                                                                                                                                                                                                      | , - | . /   |
|---|-------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
|   | ! "#\$%     |            |                                                                                                                                                                                                                                                  |     |       |
| & | ! !\$' "\$" | "          | 0 1 2 3 4 5 6 7 8 9 : 5 6 ;<br><                                                                                                                                                                                                                 | = > | ? @ A |
| ( | ! \$ % \$ ) | * ++       | BC 4 , - . / 9 0 1 ) DE 3 4<br>FG ; < H I J K L ( 0 1 \$ / " ! "<br>7 M N O P Q R S T U V F G D<br>E % W X R S Y Z [ 3 \ ] / 9<br>^ _ ` a % ' 4 ' 5 9 b c d e<br>] ' 4 ! 6 ' 7 8 9 f g ] h ^ _ ` a<br>' ' 4 ' 5 9 b c d e ] ' 4<br>! 6 ' 7 8 9 i | = > | j k l |
| , | ! \$ # \$ " | )          | 3 4<br>: , 0 ; < ( = > \$ ? 1 . : , 0 ; @ A > \$ ? 1 . 1 ( B<br>( 1 ? = ( A 1 0 \$ : - . : 1 0 \$ ? , m n o                                                                                                                                      | = > | ? @ A |
|   |             |            |                                                                                                                                                                                                                                                  |     |       |
|   |             |            |                                                                                                                                                                                                                                                  |     |       |
|   |             |            |                                                                                                                                                                                                                                                  |     |       |
|   |             |            |                                                                                                                                                                                                                                                  |     |       |

**BRBC817Q**



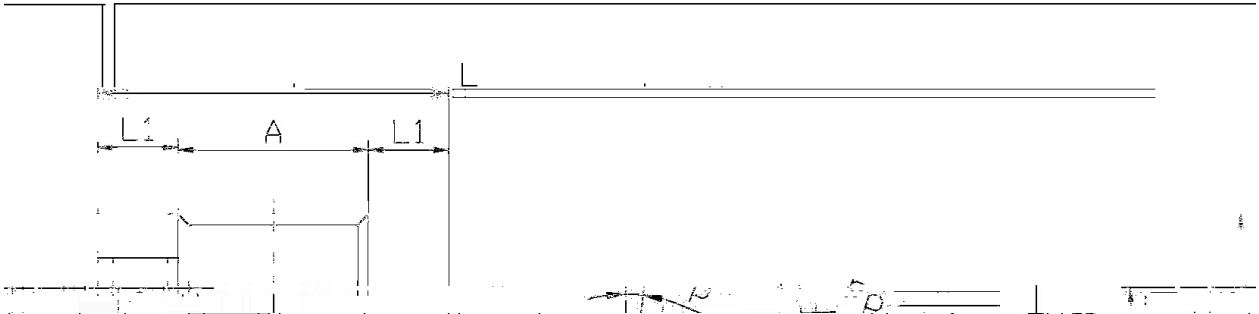
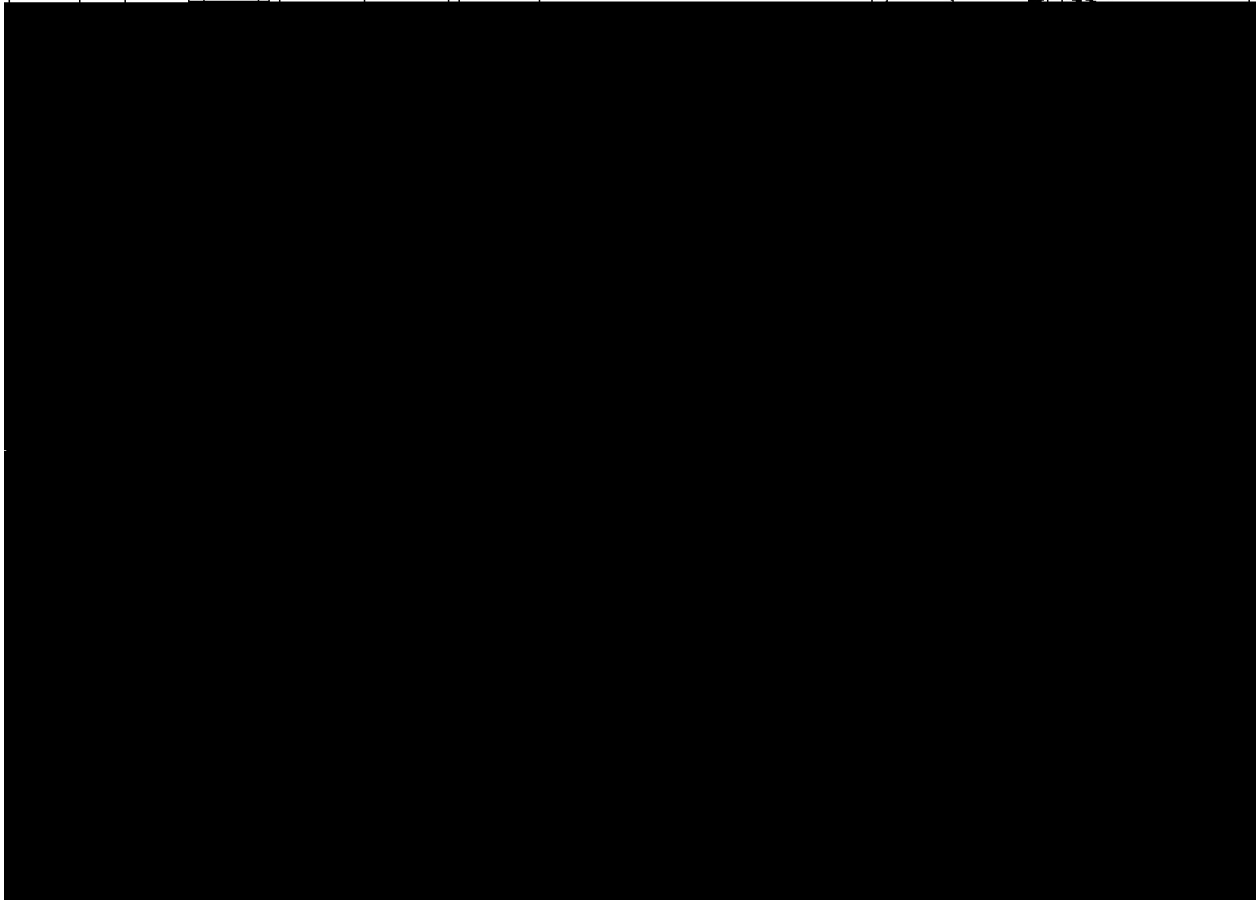
| Parameter                                  | Symbol    | Rating | Unit |
|--------------------------------------------|-----------|--------|------|
| Collector to Base Voltage                  | $V_{CBO}$ | 50     | V    |
| Collector to Emitter Voltage               | $V_{CEO}$ | 45     | V    |
| Emitter to Base Voltage                    | $V_{EBO}$ | 5.0    | V    |
| Collector Current - Continuous             | $I_C$     | 500    | mA   |
| Collector Current - peak collector current | $I_{CM}$  | 1.0    | A    |
| Collector Power Dissipation                | $P_C$     | 250    | mW   |
| Junction Temperature                       | $T_J$     | 150    | °C   |

/ Electrical Characteristic Curve

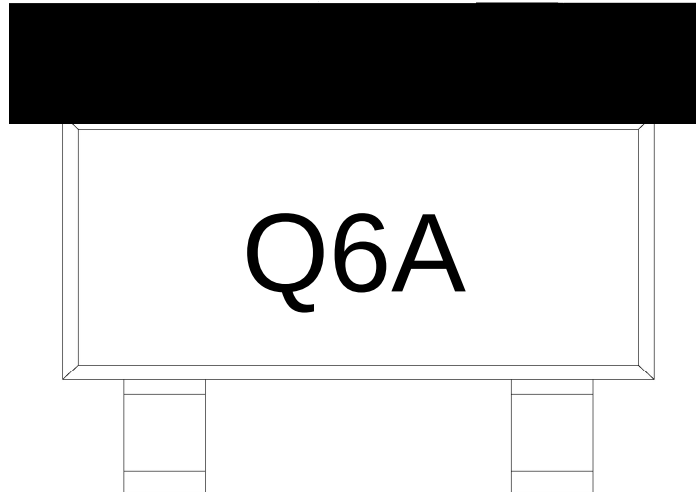


/ Package Dimensions

尺寸单位: mm  
Drawing Unit: mm



**/ Marking Instructions**



Q

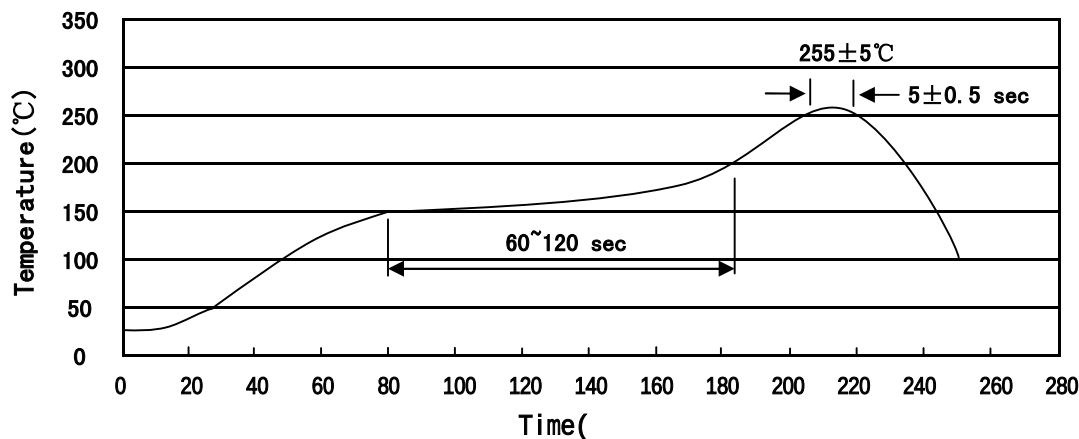
6A

Note:

Q: Automobile halogen-free product Code

6A: Product Type Code

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



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 est Conditions

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

/ Packaging SPEC.

/ REEL

| Package Type<br>封装形式 | Units 包装数量         |                         |                        |                              |                        | Dimension 包装尺寸 (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 盒 | Outer Box 箱 |
| SOT-23               | 3,000              | 10                      | 30,000                 | 6                            | 180,000                | 7" x8                                   | 180×120×180 | 390×385×205 |

/ Notices