

/ Revised record

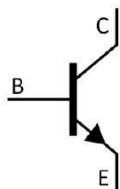
E	2016-3				
A	2022-4-27	all	BR/Q AEC-Q101 , H Q 245±5°C 5±0.5sec 255±5°C 0.5sec 5±		

SOT-323 NPN Silicon NPN transistor in a SOT-323 Plastic Package.

BRBC857WQ AEC-Q101
High current, low voltage complementary pair with BRBC857WQ, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

General purpose switching and amplification, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



PIN1 Emitter PIN 2 Base PIN 3 Collector

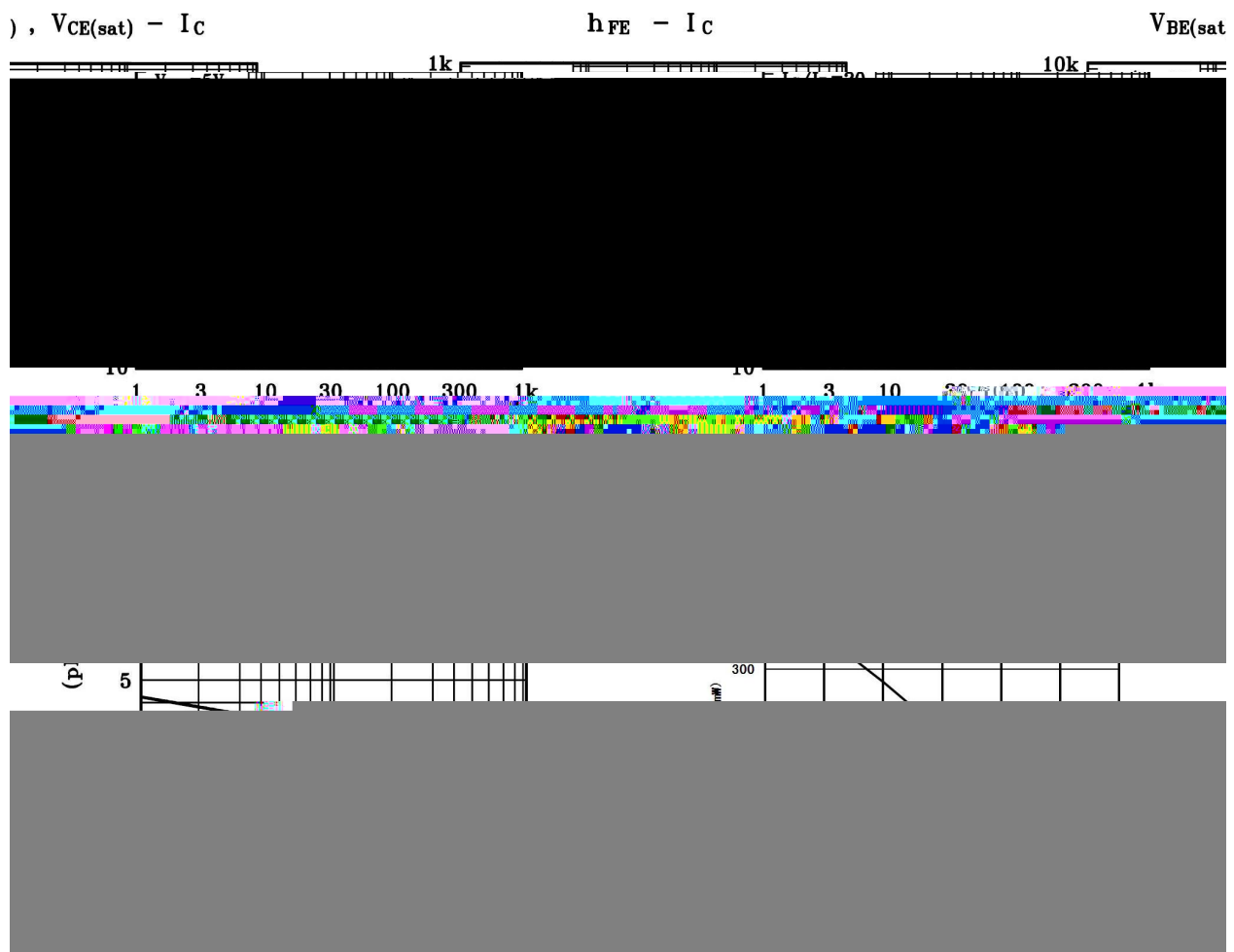
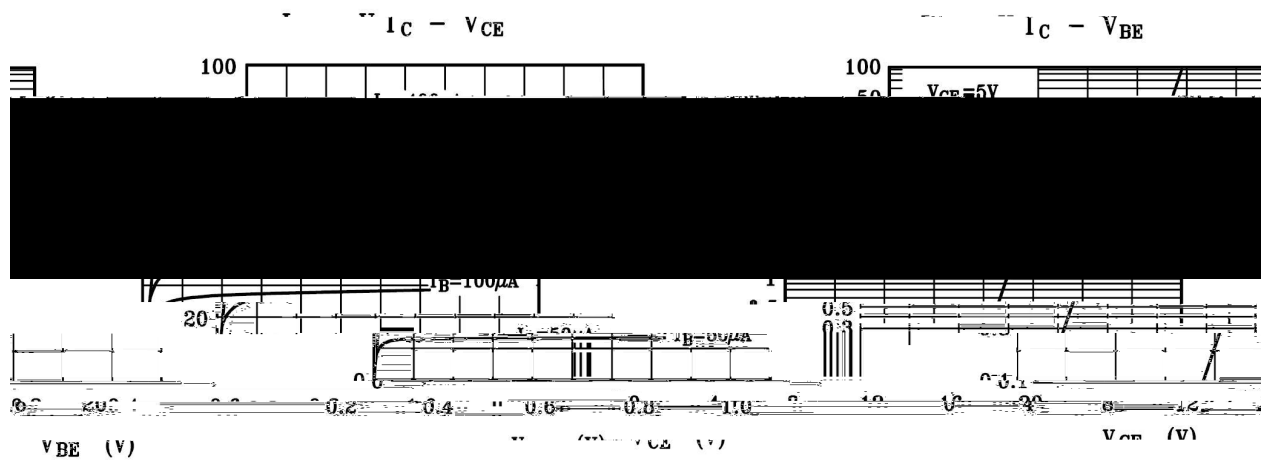
/ h_{FE} Classifications & Marking

h _{FE} Classifications Symbol	A	B	C
h _{FE} Range	110~220	200~450	420~800
Marking	Q1E	Q1F	Q1G

BRBC847WQ

Rev.A A

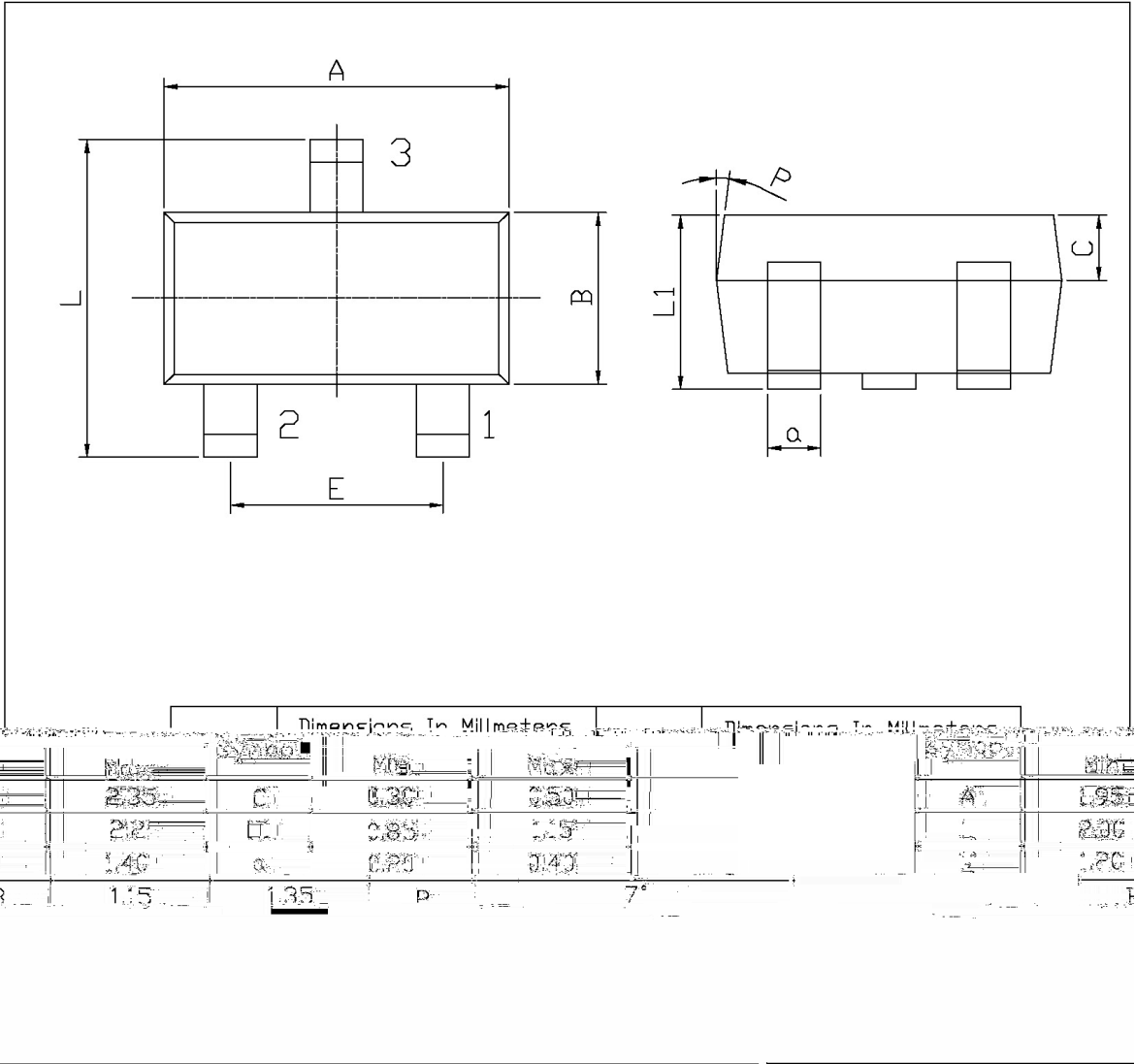
/ Electrical Characteristic Curve



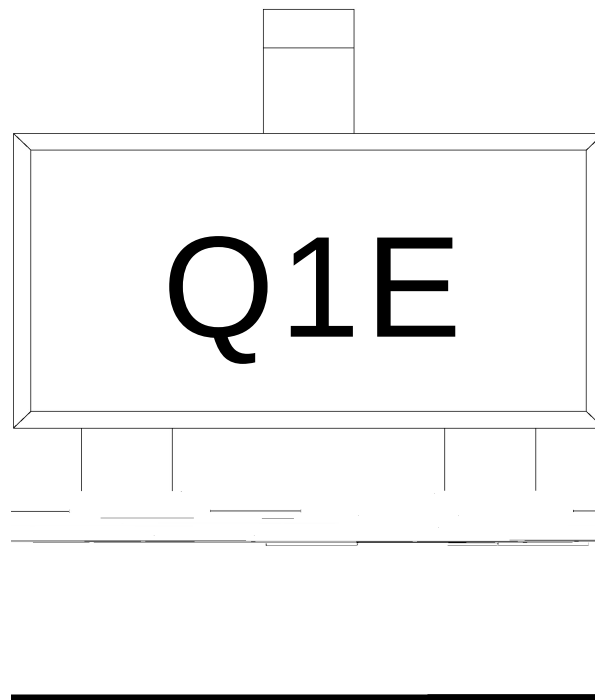
/ Package Dimensions

SOT-323

单位; mm



/ Marking Instructions



Q

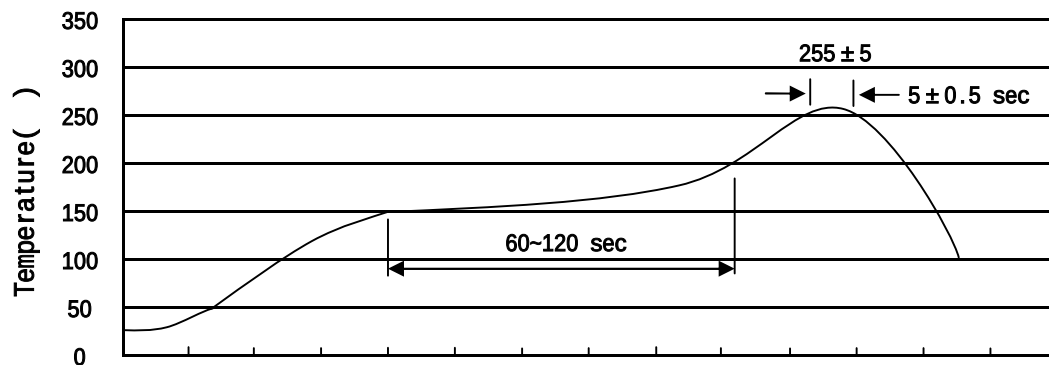
1E

Note:

Q: Automobile halogen-free product Code

1E: Product Type

() / 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 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
SOT-323	3,000	10	30,000	6	180,000	7" x8	180×120×180	390×385×205

/ Notices