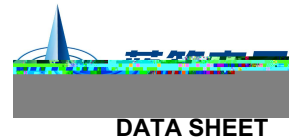


/ Revised record

F	2017-4				
G	2020-5-15	1			
A	2022-4-23	all	<p>BR/Q</p> <p>AEC-Q101</p> <p>H Q</p> <p>245±5°C</p> <p>5±0.5sec</p> <p>255±5°C</p> <p>0.5sec</p> <p>5±</p>		

BRBC807Q

Rev.A Apr.-2022



SOT-23

PNP

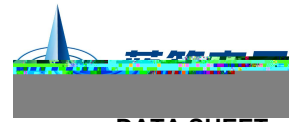
Silicon PNP transistor in a SOT-23 Plastic Package.

I_C BRBC817Q AEC-Q101

High I_C , complementary pair with BRBC817Q, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

6

General power amplifier and switching applications, Meet the string SSSSSS w3

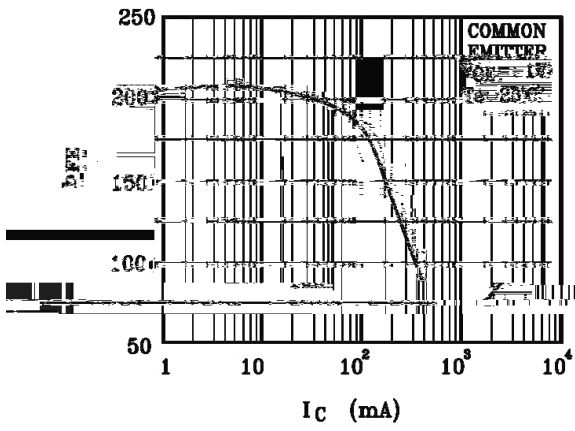


参数 Parameter	符号 Symbol	数值 Rating	单位 Unit
Collector to Base Voltage	V_{CBO}	-50	V
Collector to Emitter Voltage	V_{CEO}	-45	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-500	mA
Peak Collector Current - Continuous	I_{CM}	-1.0	A
Power Dissipation	P_C	250	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C

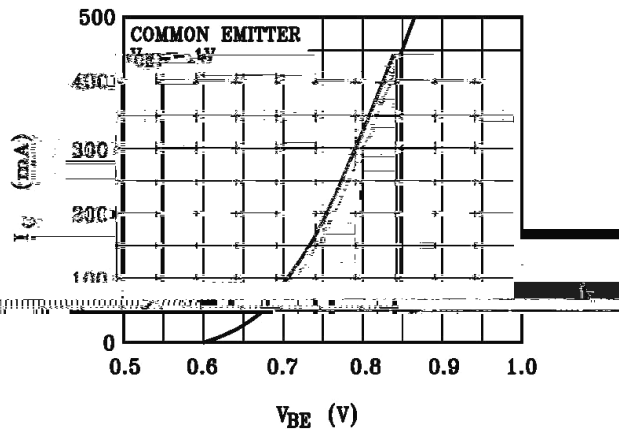
参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C = -10\mu A$ $I_E = 0$	-50			V
Collector to Emitter Breakdown Voltage V.1	V_{CEO}	$I_C = -10mA^*$ $I_B = 0$	-45			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E = -10\mu A$ $I_C = 0$	-5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB} = -20V$ $I_E = 0$			-0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = -5.0V$ $I_C = 0$			-0.1	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = -1.0V$ $I_C = -100mA$	100			

/ Electrical Characteristic Curve

$h_{FE} - I_C$



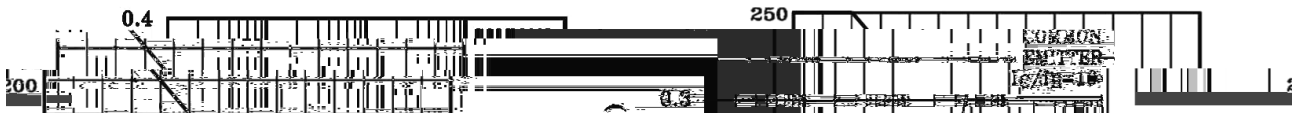
$I_C - V_{BE}$



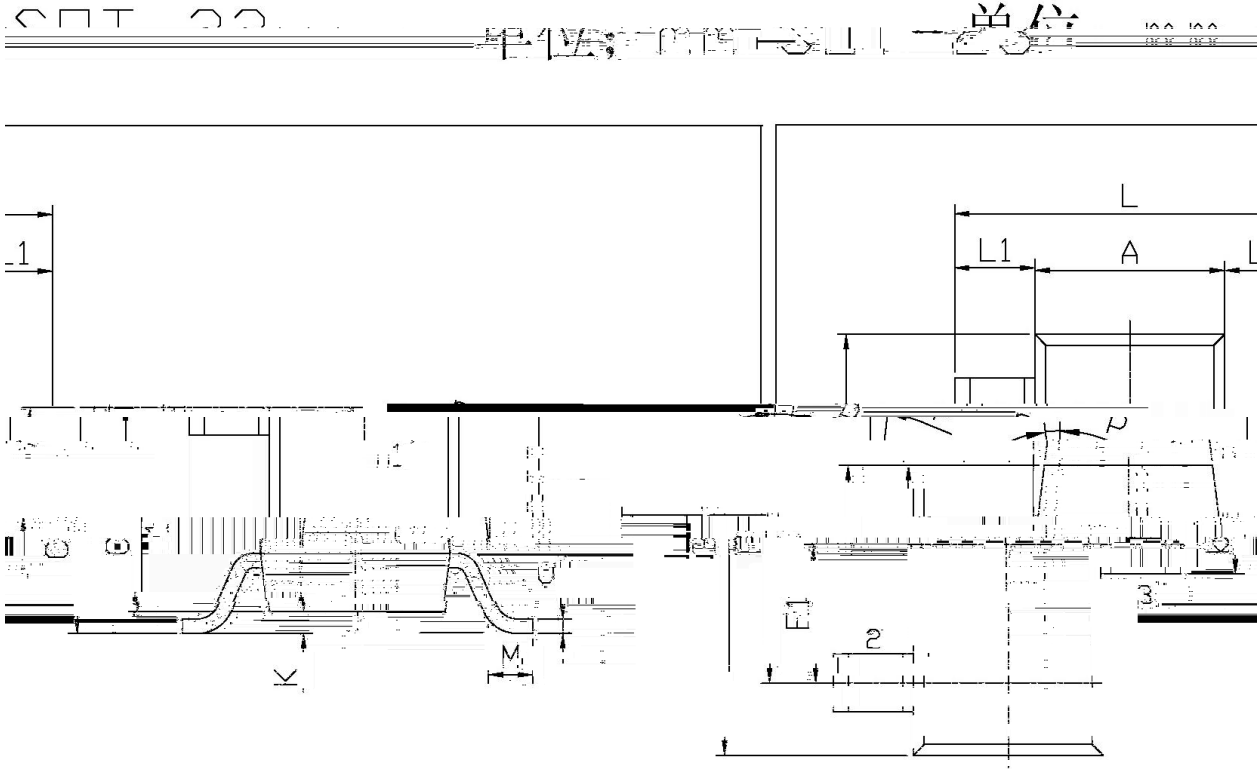
$V_{CE(sat)} - I_C$



$P_C - T_a$



/ Package Dimensions



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
L	2.2	2.7	C	1.30Max	
L1	0.45	0.65	C1	0.90	1.20
A	1.15	1.50	C2	0.05	0.20
B	2.70	3.10	K	0	0.10
D	0.75	0.90	P	0.20	0.20Min
E	0.85	0.95	R	0.55	0.75
F	0.35	0.55			

/ Marking Instructions



说明：

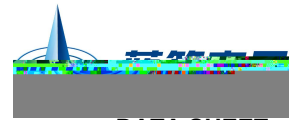
Q： 为汽车无卤产品标识

5A： 为型号代码

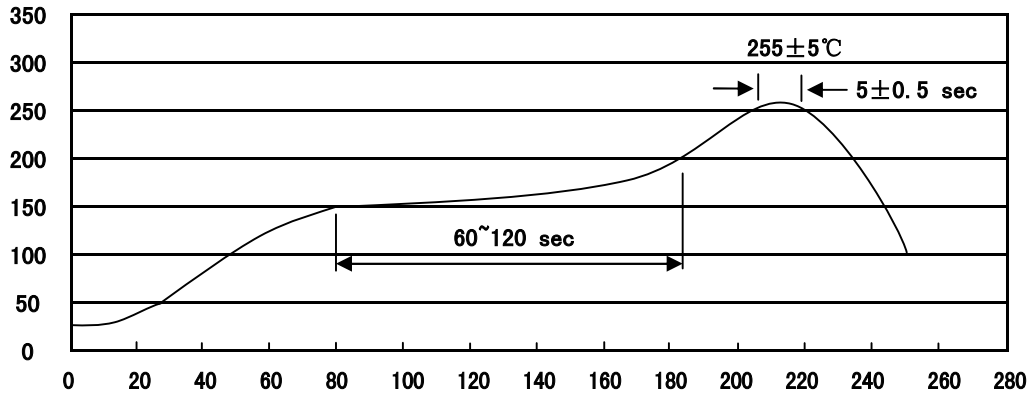
Note:

Q: Automobile halogen-free product Code

5A: Product Type Code



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



Note:

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

/ Resistance to Soldering Heat Test Conditions

260 5 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 /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box 盒	Outer Box 箱
SOT-23	3,000	10	30,000	6	180,000	7" x8	180x120x180	390x385x205

/ Notices