

/ Revised record

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F	2017-4				
G	2020-5-15	1	0 1 2 3 4 5 6 7 8 9 : 5 6 ; <	= >	? @ A
A	2021-12-17	all	BC 4 BR 4 Q9 0 1) DE 3 4 FG ; < H I J K L AEC-Q101 7 M N O P Q R S T U V F G D E % W X R S Y , Z [H \] Q 9 ^ _ ` a 245±5°C 9 b c d e ] 5±0.5sec f g ] h ^ _ ` a 255±5°C 9 b c d e] 5±0.5sec i	= >	? @ A

/ Descriptions

SOT-23 j k k l NPN m n o p q r i Silicon NPN transistor in a SOT-23 Plastic Package.

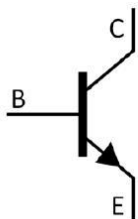
/ Features

s t N,u v t w x,y z q { | z + x, } BRMMBTA92Q ~ 9 K L AEC-Q101 7 M N O P Q R S 9 5 6 ; < i
High voltage, Low saturation voltage, low collector capacitance output, complementary pair with BRMMBTA92Q, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

/ Applications

N z t j - z ϕ 9 U V F G D E % W X R S i
High voltage control circuit, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1 h Base PIN 2 h Emitter PIN 3 h Collector

/ Marking

h _{FE} Range	>40
Marking	Q1D

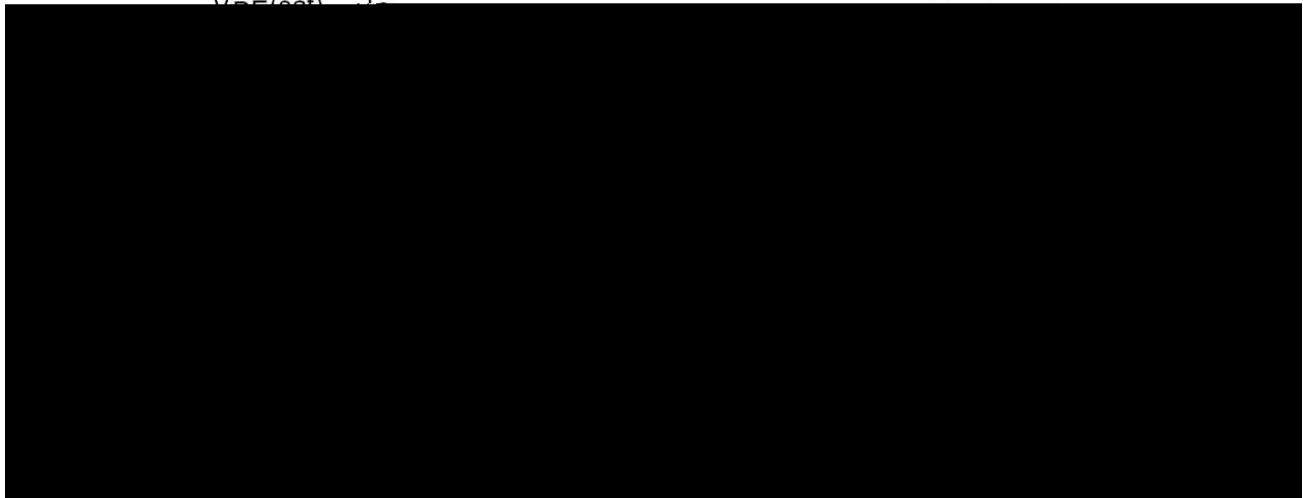
BRMMBTA42Q
Rev.A Dec.-2021

Parameter	Symbol	Rating	Unit
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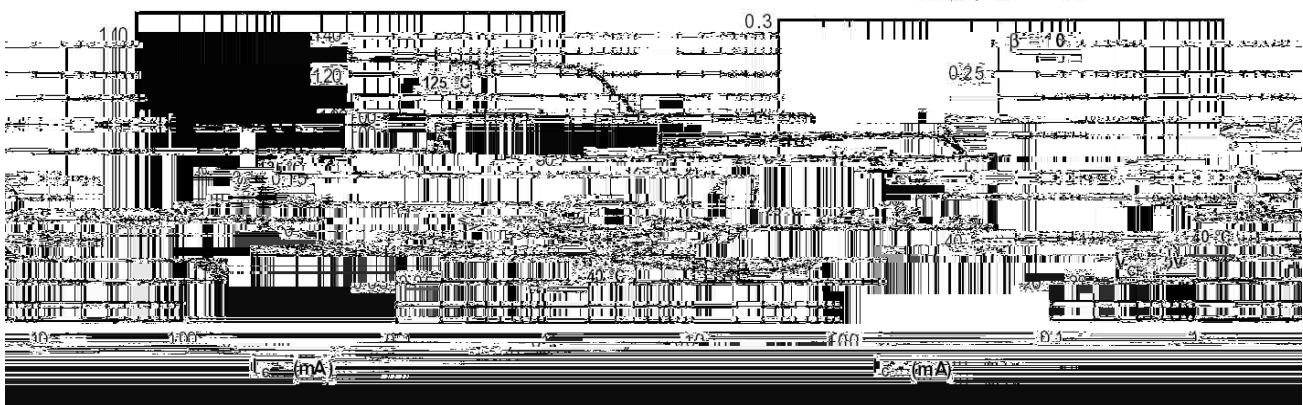
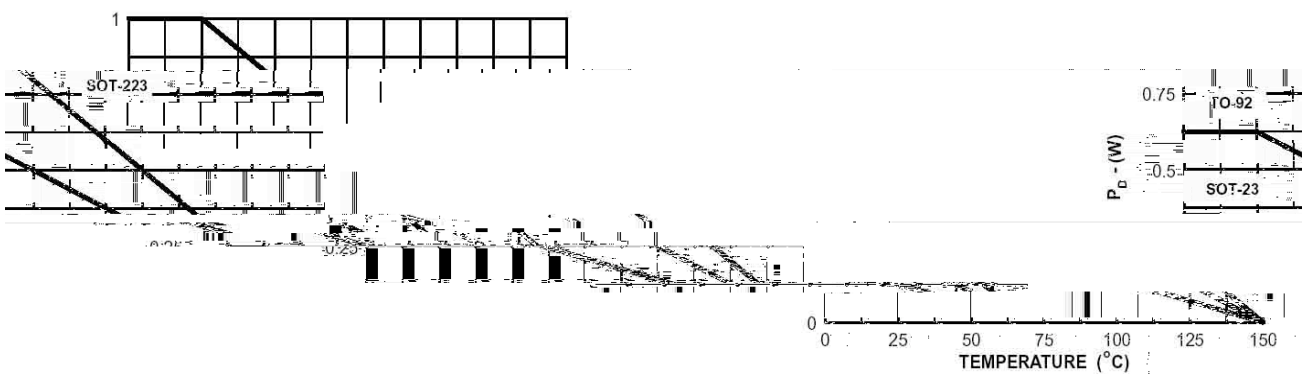
/ Electrical Characteristic Curve

$V_{CE}(sat) - I_C$



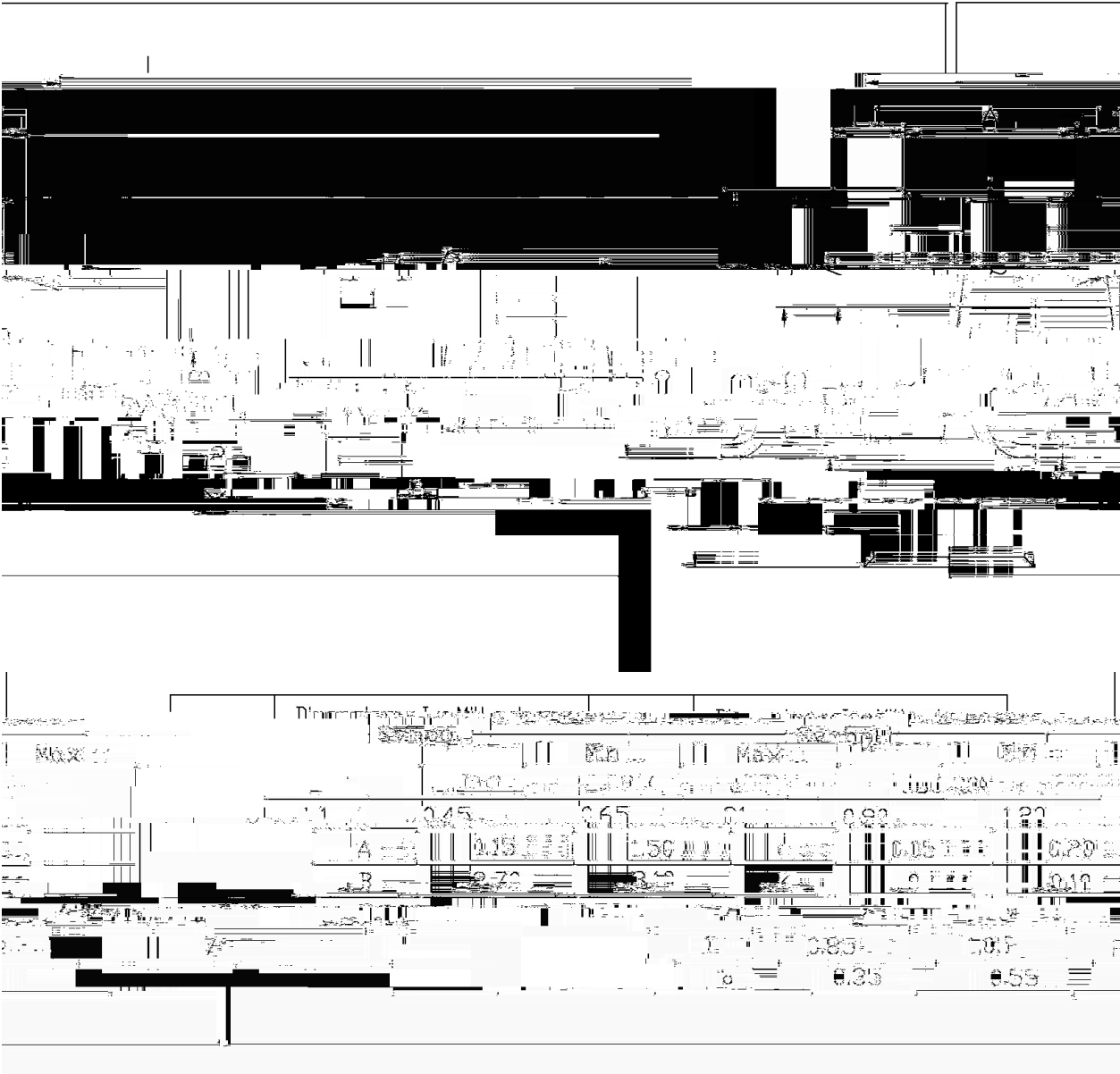
$h_{FE} - I_C$

$V_{CE}(sat) - I_C$

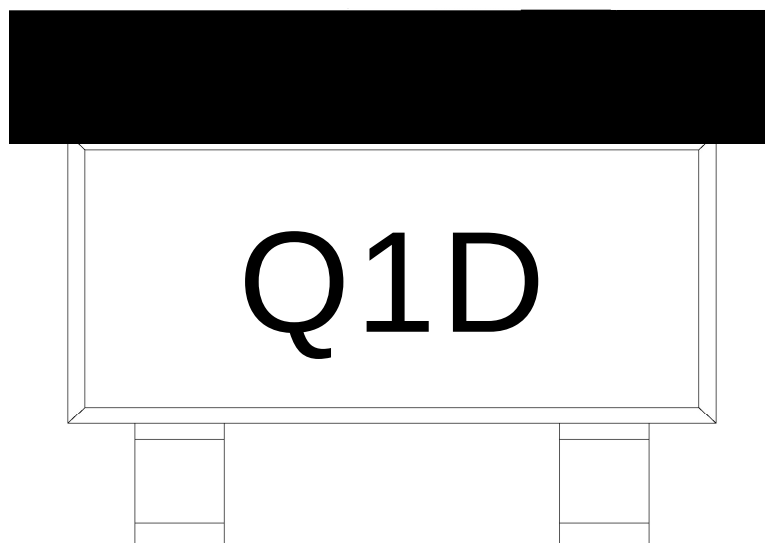


/ Package Dimensions

单位: mm



/ Marking Instructions



1D: Product Type Code.



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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
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