/ Revised record

	! " #	$! % & '	! ( ) % * +	, -	. /
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	B C 4 BR 4 Q 9 0 1) D E 3 4 F G ; < 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℃ 9 b c d e ] 5±0.5sec f g ] h ^ _ ` a 255±5℃ 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

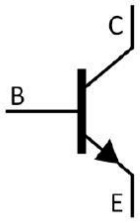
High voltage, Low saturation voltage, low collector capacitance output, complementary pair with BRMMBTA92Q, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

/ Applications

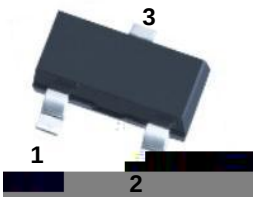
N z t ¡ - z ¢ 9 U V F G D E %W X R S i

High voltage control circuit, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



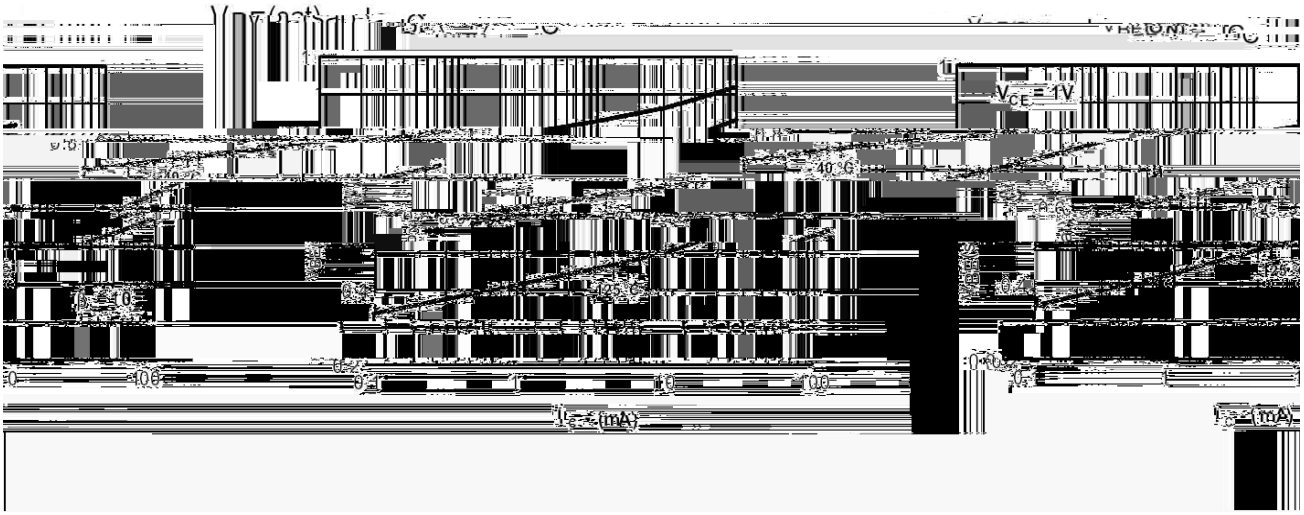
PIN1 h Base PIN 2 h Emitter PIN 3 h Collector

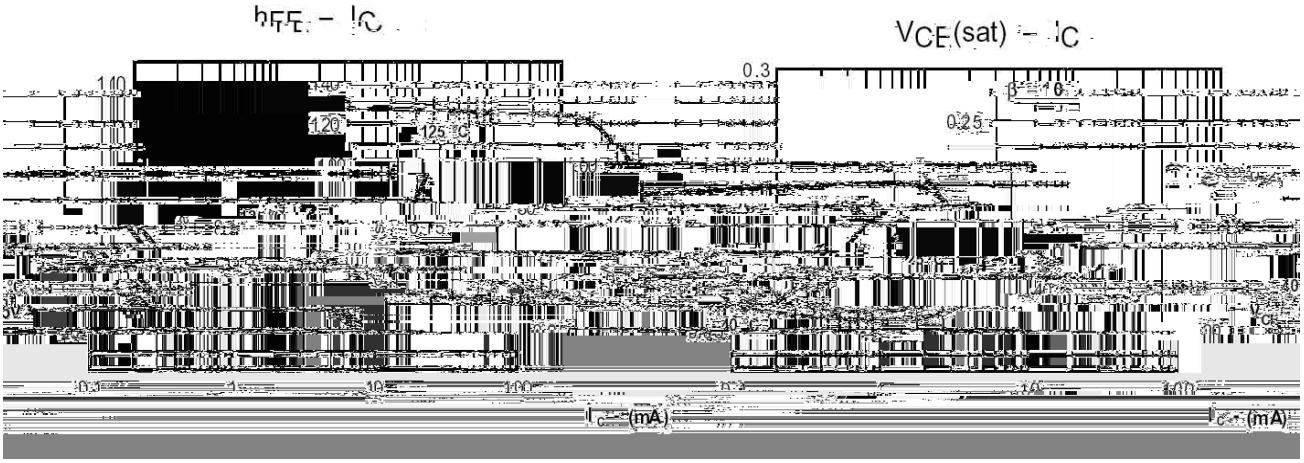
/ Marking

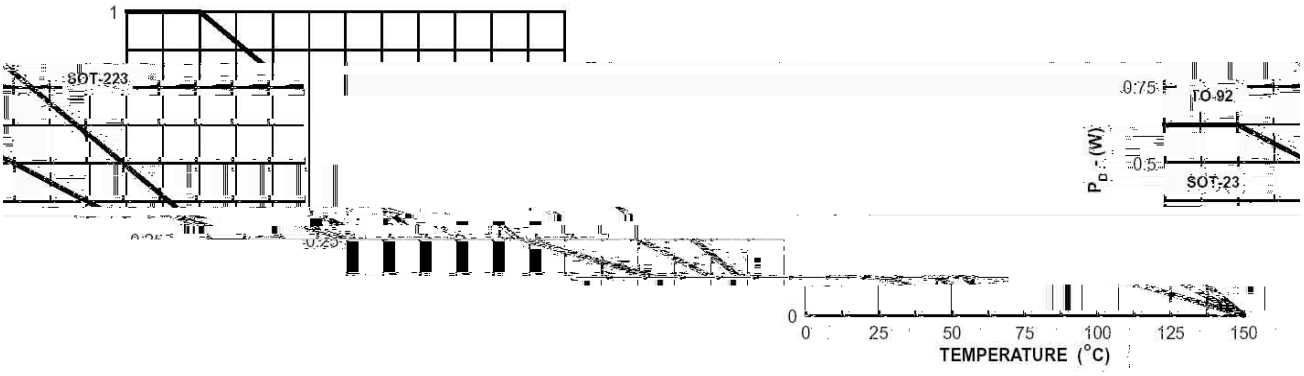
h_{FE} Range	>40
Marking	Q1D

Parameter	Symbol	Rating	Unit

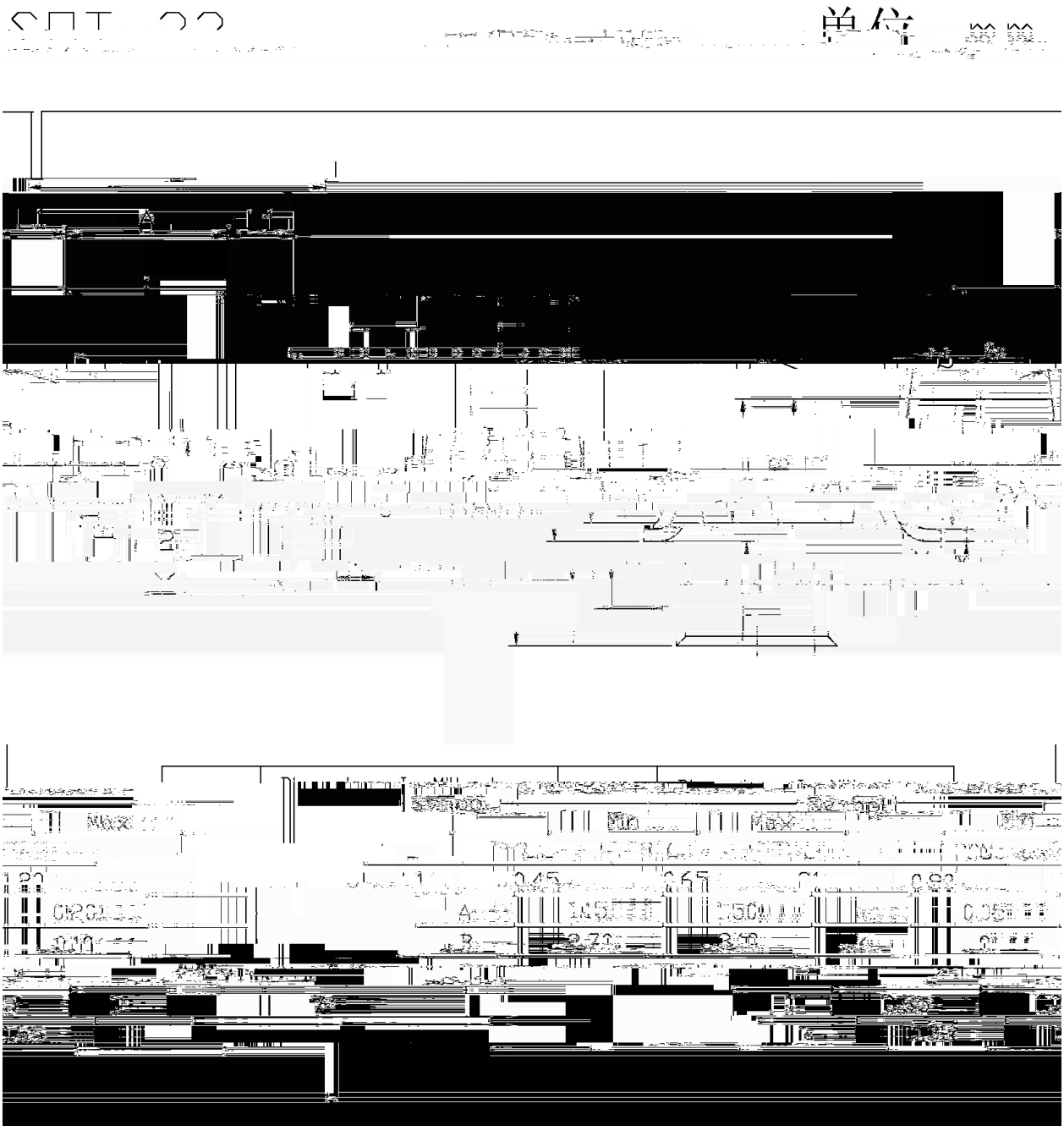
/ Electrical Characteristic Curve



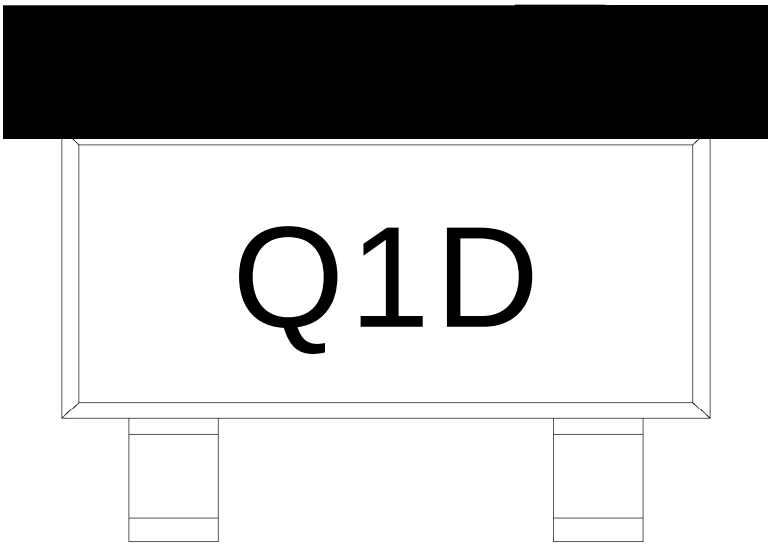




/ Package Dimensions



/ Marking Instructions



½¾ h

Q h] F G 5 6 ; < 7 8

1D h] B C ¿ '

Note:

Q: Automobile halogen-free product Code

1D: Product Type Code.

( ) /

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℃	Time:10±1 sec

/ PackagR Ĭ