

--	--	--	--	--

BR2SD1815Q

Rev.A Apr.-2022



DATA SHEET

/ Descriptions

TO-252 NPN

Silicon NPN transistor in a TO-252 Plastic Package.

/ Features

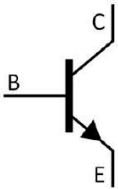
AEC-Q101

Qualified to AEC-Q101 Standards for High Reliability, HF Product.

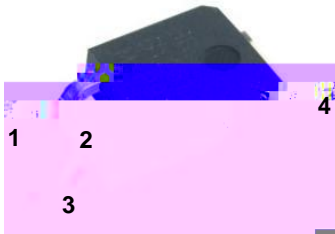
/ Applications

Relay drivers,high-speed inverters,converters,and other general high-current switching applications, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base

PIN 2,4 Collector

PIN 3 Emitter

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	Q	R	S	T
h_{FE} Range	70-140	100-200	140-280	200-400

BR2SD1815Q

Rev.A Apr.-2022

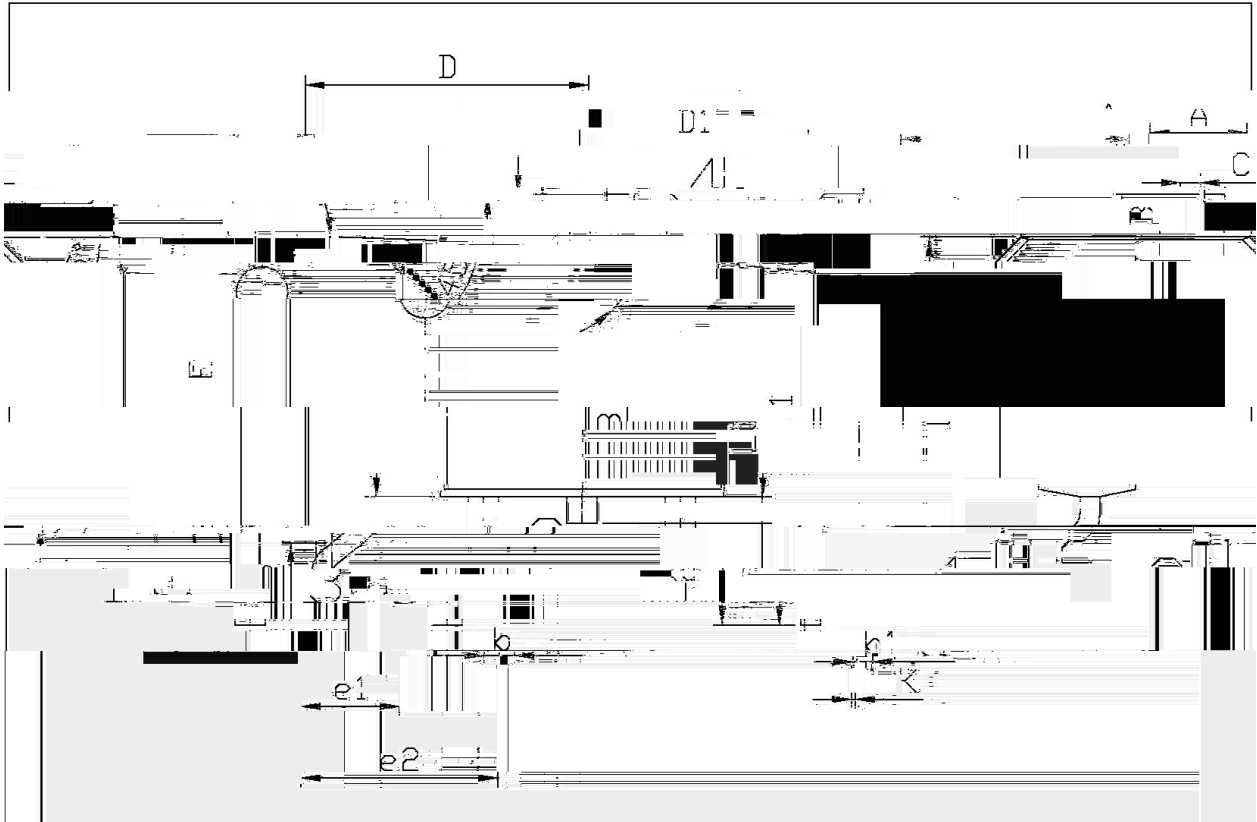


DATA SHEET

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	120	V
Collector to Emitter Voltage	V_{CEO}	100	V
Emitter to Base Voltage	V_{EBO}	6	V
Collector Current - Continuous	I_C	3	A
Collector Current – Continuous(Pulse)	I_{CP}	6	A
Collector Power Dissipation	P_C	1	W
Collector Power Dissipation	$P_C(T_C=25^{\circ}C)$	10	W
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55~150	$^{\circ}C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=10\mu A$ $I_E=0$	120			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1mA$ $I_B=0$	100			V
Emitter to Base Breakdown Voltage	V_{EBO}	I				

/ Package Dimensions

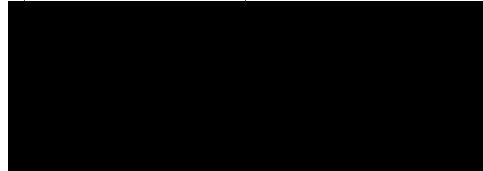
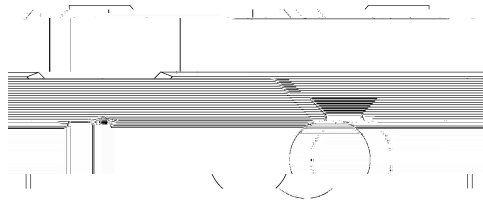


单位: mm

Dimensions in millimeters Symbol	Dimensions in millimeters		Dimensions in inches	
	Min	Max	Min	Max
e_1	6.05	6.25	0.238	0.248
e_2	4.43	4.73	0.174	0.186
b	0.95	1.05	0.037	0.041
D	6.45	6.75	0.254	0.268
D_1	5.10	5.50	0.201	0.217

T0-252

/ Marking Instructions



说明：

BR： 为公司

Q： 为汽车无卤产品标识

D1815： 为型号

R： 为 h_{FE} 分档

****： 为生产批号 ， 随生产批号变化

Note:

BR: Company Code

Q: Automobile halogen-free product Code

D1815: Product Type.

R: h_{FE} Classifications Symbol

****: Lot No

