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BR2SD1815Q

Rev.A Apr.-2022



DATA SHEET

/ Descriptions

TO-252 NPN

Silicon NPN transistor in a TO-252 Plastic Package.

/ Features

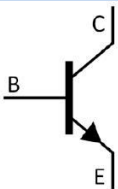
AEC-Q101

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

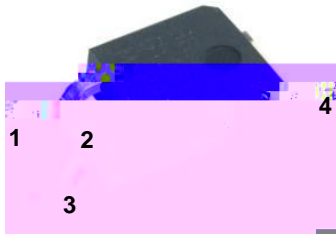
/ Applications

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

B
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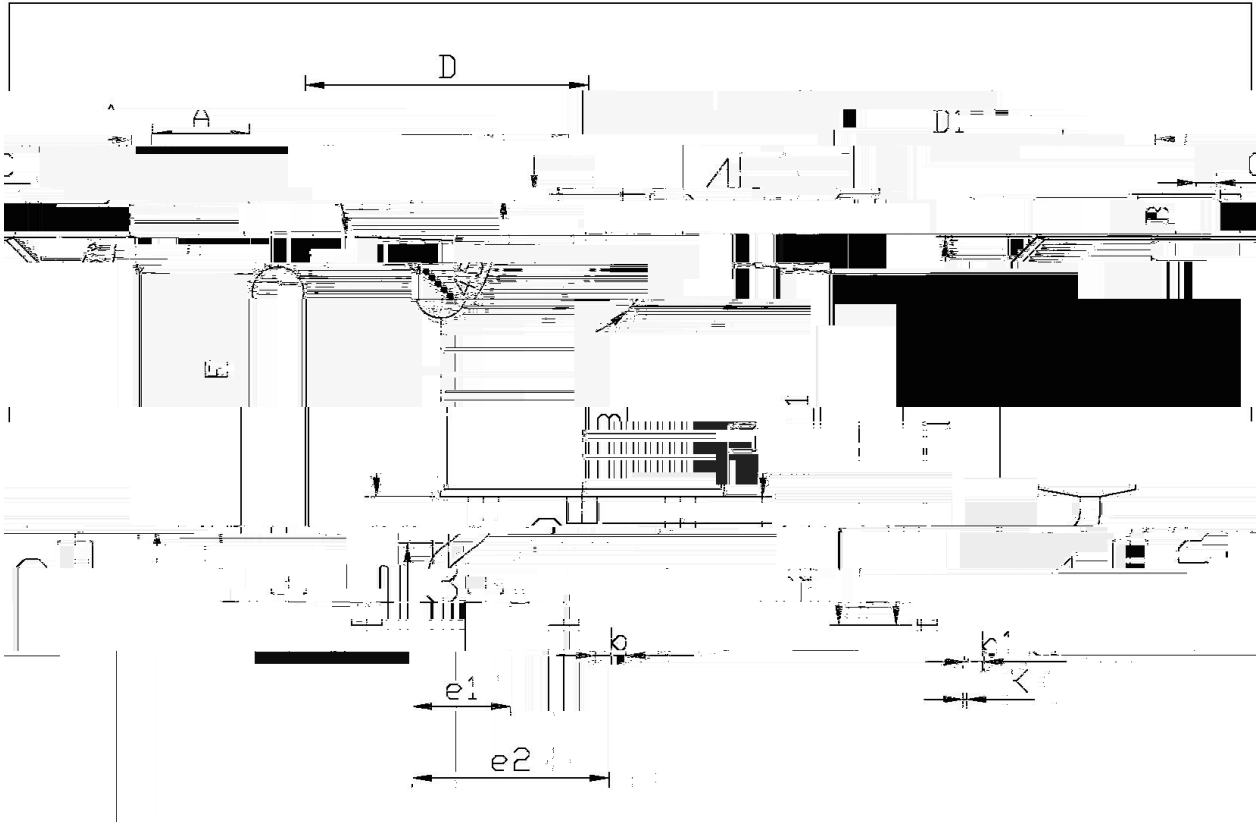


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Parameter	Symbol	Rating
Collector to Base Voltage	V_{CBO}	
Collector to Emitter Voltage	V_{CEO}	
Emitter to Base Voltage	V_{EBO}	
Collector Current - Continuous	I_C	
Collector Current - Continuous	I_{CP}	
Collector Power Dissipation	P_C	
Collector Power Dissipation	$P_C(T_C=25^\circ C)$	
Junction Temperature	T_j	
Storage Temperature Range	T_{stg}	

Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1mA$	$I_B=0$	Collector	100		V
Emitter to Base Breakdown Voltage	V_{EBO}						

/ Package Dimensions

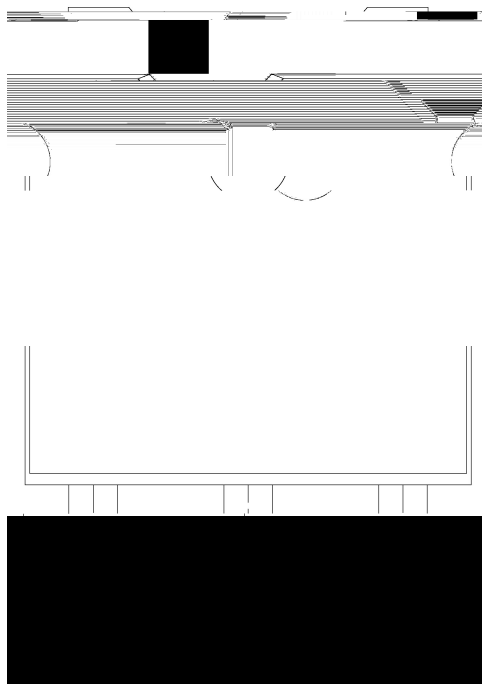


单位: mm

Dimensions in Millimeters		Dimensions in Millimeters		Dimensions in Millimeters	
Symbol	Min	Max	Symbol	Min	Max
A	4.43	4.73	b	0.70	0.90
D	6.45	6.75	e1	0.45	0.55
D1	5.10	5.50	e2	0.60	0.70

10-252

/ Marking Instructions



BR

Q

h_{FE}

Note:

BR: Company Code

Q: Automobile halogen-free product Code

D1815: Product Type.

R: h_{FE} Classifications Symbol

****: Lot No

