','' -./0-1'2-3421''

E	2016-5				
F	2021-4-20	1			
A	2022-4-23	all	BR Q TO-252 TO-252#, AEC-Q101 Q 245±5℃ 5 ±0.5sec 255 ±5℃ 5±0.5sec		

',' "-032/A;/4<0'

TO-252 NPN ! " # $ % & ' Silicon NPN transistor in a TO-252 Plastic Package.

','6-9;B2-0'

(BR2SB649ADQ) * + , - AEC-Q101 . / 0 1 2 3 4 5 + 6 7 8 9 '

Complementary pair with BR2SB649ADQ, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

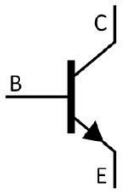
'

',''%AA8/39;/4<0''

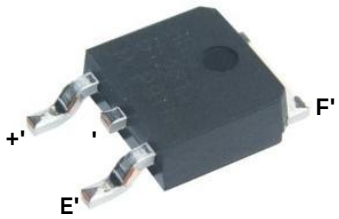
: ; < = > ? @ A + B C D E F : G H I 4 5 '

Low frequency power amplifier, Meet the stringent requirements of automotive applications.

',''*CB/.98-<;'7/23B/;'



',''D/<</<@'



PIN1 J Base PIN 2,4 J Collector PIN 3 J Emitter

',''5$6*'78900/:/39;/4<0'='>92?/<@'

h_{FE} Classifications Symbol	B	C	D
h_{FE} Range	60～120	100～200	160～320

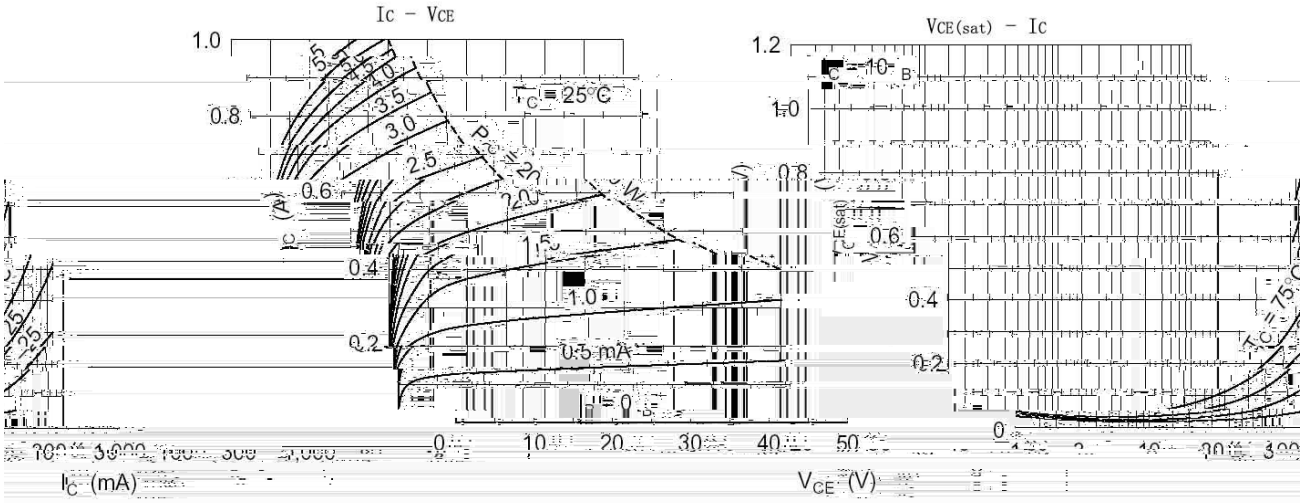
'

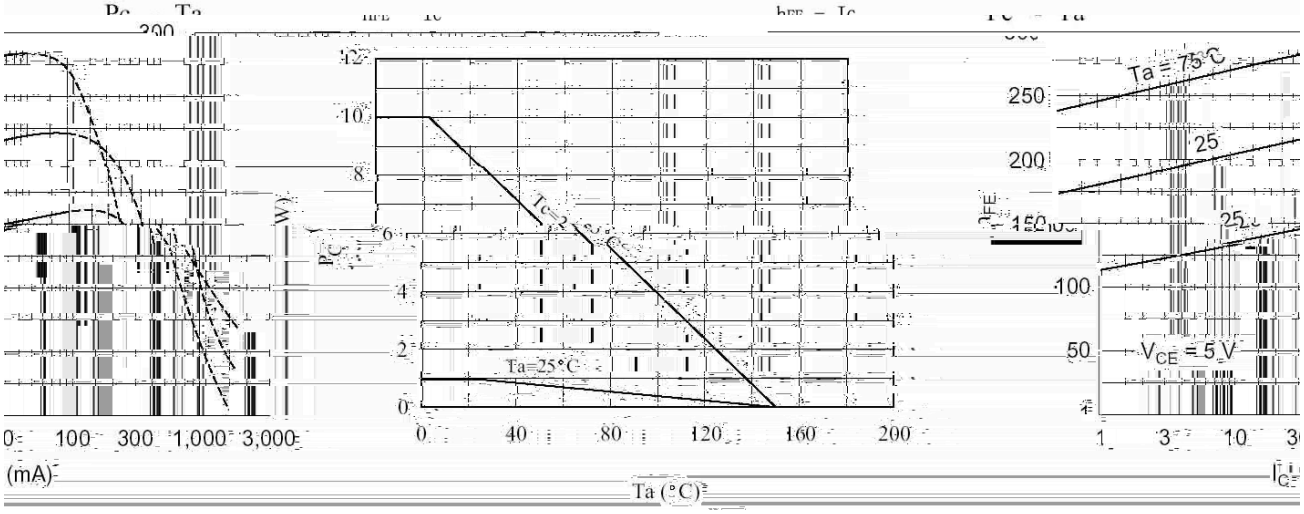
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	180	V
Collector to Emitter Voltage	V_{CEO}	160	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	1.5	A
Collector Current – Continuous(Pulse)	I_{CP}	3.0	A
Collector Power Dissipation	P_C	1.0	W
Collector Power Dissipation	P_C(Tc=25℃)	10	W
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55～150	℃

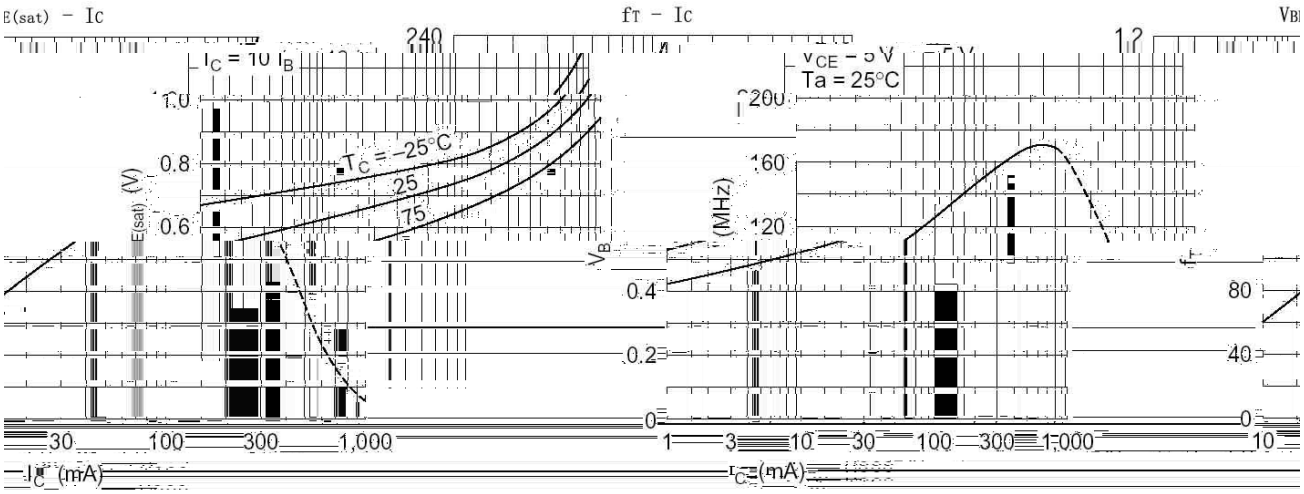
' FE(

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=1.0mA ' I_E=0	180	'		V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=10mA ' R_{BE}=∞	160			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=1.0mA ' I_C=0	5.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=160V ' I_E=0			10	μA
DC Current Gain	$h_{FE(1)}$	V_{CE}=5.0V 2 I_C=150mA	60		320	

''','' *8-3;2/398'759293;-2/0;/3'7B2.-'



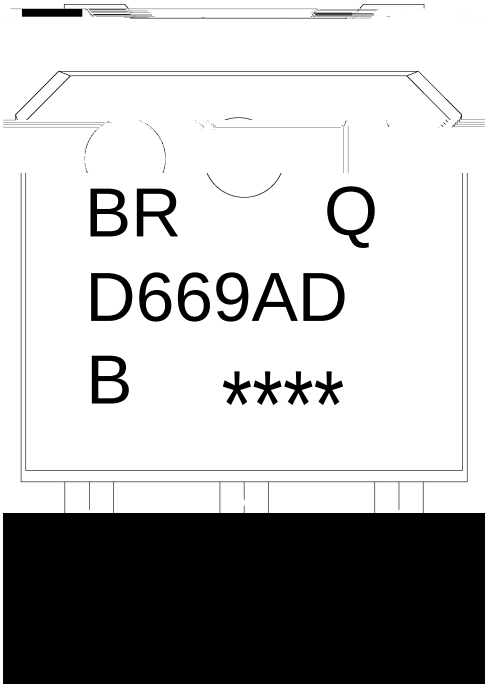




! "##$%"&'

Rev.A Apr.-2022

' ',' ' >92?/<@'ℕ<0;2B3;/4<0'



BR

Q

D669AD

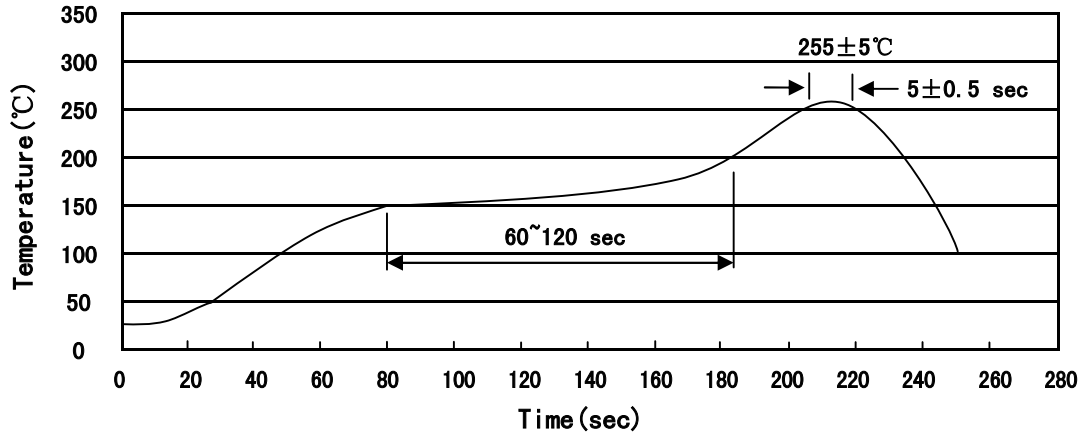
B: h_{FE}

****

Note:

BR:	Company Code
Q:	Automobile halogen-free product Code
D669AD:	Product Type
B:	h_{FE} Classifications Symbol
****:	Lot No. Code, code change with Lot No

J M''','' 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.

''','''' -0/0;9<3-';4'!481-2/<@')-9;'(-0;'74<1/;/4<0'

260±5℃ 10±1 sec. Temp.:260±5℃ Time:10±1 sec

''','' D93?9@/<@'!D*7◊'

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box 盒	Outer Box 箱
TO-252	2,500	2	5,000	6	30,000	13″ ×16	360×360×50	380×335×366

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm³)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube 套管	Inner Box 盒	Outer Box 箱
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

''','' P4;/3-0