

# BR2SC2712Q

Rev.A Oct.-2023

## / Descriptions

JF K\$) \* E GE Silicon NPN transistor in a SOT-23 Plastic Package.

## / Features

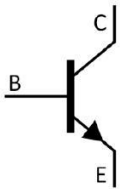
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High voltage, high current, high hFE, low noise, excellent hFE linearity, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

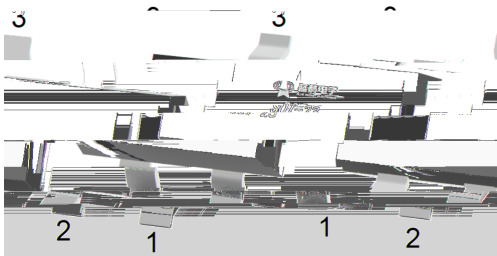
## / Applications

Audio frequency general purpose amplifier applications, Meet the stringent requirements of automotive applications.

## / Equivalent Circuit



## / Pinning



PIN1 Base PIN 2 Emitter PIN 3 Collector

## / hFE Classifications & Marking

hFE Classifications Symbol	O	Y	GR	BL
hFE Range	70 140	120 240	200 400	350 700
Marking	QLO	QLY	QLG	QLL

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## DATA SHEET

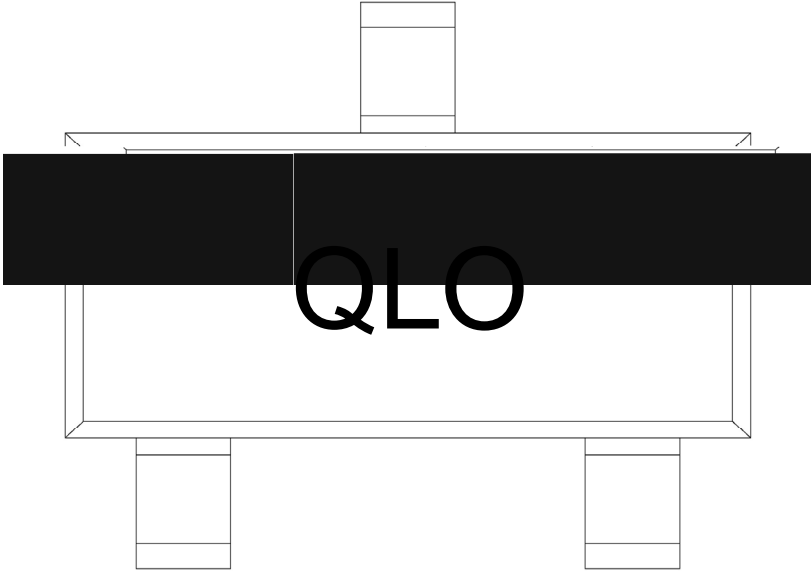
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CB0}$	60	V
Collector to Emitter Voltage	$V_{CE0}$	50	V
Emitter to Base Voltage	$V_{EB0}$	5.0	V
Collector Current	$I_C$	150	mA
Base Current	$I_B$	30	mA
Collector Power Dissipation	$P_C$	150	mW
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	$I_{CB0}$	$V_{CB}=60V$ $I_E=0$			0.1	$\mu A$
Emitter Base Cut-Off Current	$I_{EB0}$	$V_{EB}=5.0V$ $I_C=0$			0.1	$\mu A$
DC Current Gain	$h_{FE}$	$V_{CE}=6.0V$ $I_C=2.0mA$	70		700	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100mA$ $I_B=10mA$		0.1	0.25	V





/ Marking Instructions



- H
  - C
  - F      hFE
- Note:
- H1
  - C      Product Type Code
  - F      hFE Classifications Symbol

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**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

**/ Packaging SPEC.**

**/ REEL**

Package Type	Units				Dimension	(unit mm <sup>3</sup> )
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box		