Transistors Panasonic

## 2SB0792A

### Silicon PNP epitaxial planar type

For high breakdown voltage low-noise amplification

#### ■ Features

- ullet High collector-emitter voltage (Base open)  $V_{CEO}$
- Low noise voltage NV
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing.

#### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	-185	V	
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	-185	V	
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	-5	V	
Collector current	$I_{\mathrm{C}}$	-50	mA	
Peak collector current	$I_{CP}$	-100	mA	
Collector power dissipation	$P_{\rm C}$	200	mW	
Junction temperature	$T_{j}$	150	°C	
Storage temperature	T <sub>stg</sub>	-55 to +150	°C	

#### ■ Package

Code

Mini3-G1

- Pin Name
  - 1. Base
  - 2. Emitter
  - 3. Collector

Marking Symbol: 2F

#### ■ Electrical Characteristics $T_a = 25$ °C±3°C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	$I_C = -100 \mu\text{A}, I_B = 0$	-185			V
Emitter-base voltage (Collector open)	$V_{\rm EBO}$	$I_E = -10 \mu\text{A}, I_C = 0$	-5			V
Collector-base cutoff current (Emitter open)	$I_{CBO}$	$V_{CB} = -100 \text{ V}, I_E = 0$			-1	μΑ
Forward current transfer ratio *	$h_{FE}$	$V_{CE} = -5 \text{ V}, I_{C} = -10 \text{ mA}$	130		330	_
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = -30 \text{ mA}, I_B = -3 \text{ mA}$			-1	V
Transition frequency	$f_T$	$V_{CB} = -10 \text{ V}, I_E = 10 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance (Common base, input open circuited)	C <sub>ob</sub>	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		4		pF
Noise voltage	NV	$V_{CB}$ = -10 V, $I_{C}$ = -1 mA, $G_{V}$ = 80 dB, $R_{g}$ = 100 kΩ, Function = FLAT		150		mV

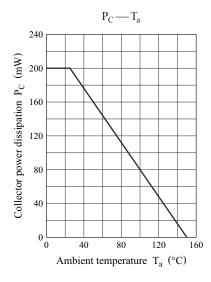
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

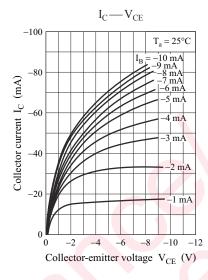
#### 2. \*: Rank classification

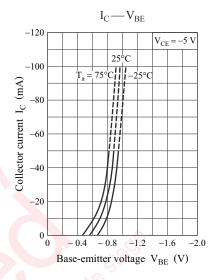
Rank	R	S
$h_{\mathrm{FE}}$	130 to 220	185 to 330
Merking symbol	2FR	2FS

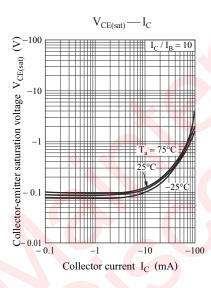
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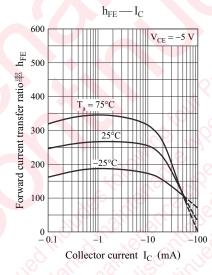
**Panasonic** 

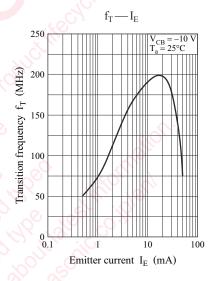


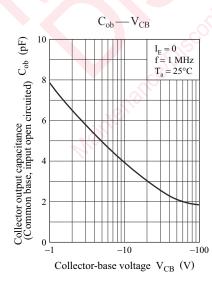








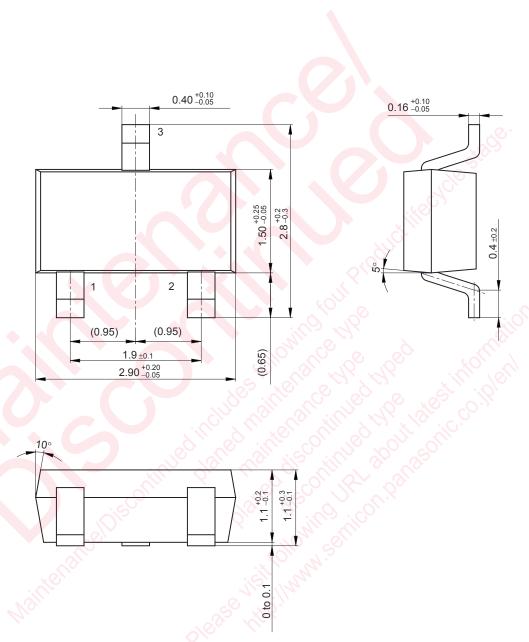




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Panasonic 2SB0792A

Mini3-G1 Unit: mm



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