Transistors

# 2SA1791G

## Silicon PNP epitaxial planar type

For high-frequency amplification Complementary to 2SC4656G

### Features

- High transition frequency  $f_T$
- $\bullet$  Small collector output capacitance  $C_{ob}$
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing.

### Absolute Maximum Ratings $T_a = 25^{\circ}C$ Parameter Symbol Unit Rating Collector-base voltage (Emitter open) V<sub>CBO</sub> -50 V Collector-emitter voltage (Base open) -50V V<sub>CEO</sub> Emitter-base voltage (Collector open) -5 V V<sub>EBO</sub> -50 Collector current $I_{C}$ mА Collector power dissipation $P_{C}$ 125 mW °C Ti 125 Junction temperature Storage temperature T<sub>stg</sub> -55 to +125 °C

### Package

- Code
- SSMini3-F3
- Marking Symbol: AL
- Pin Name
  - 1. Base
  - 2. Emitter
  - 3. Collector

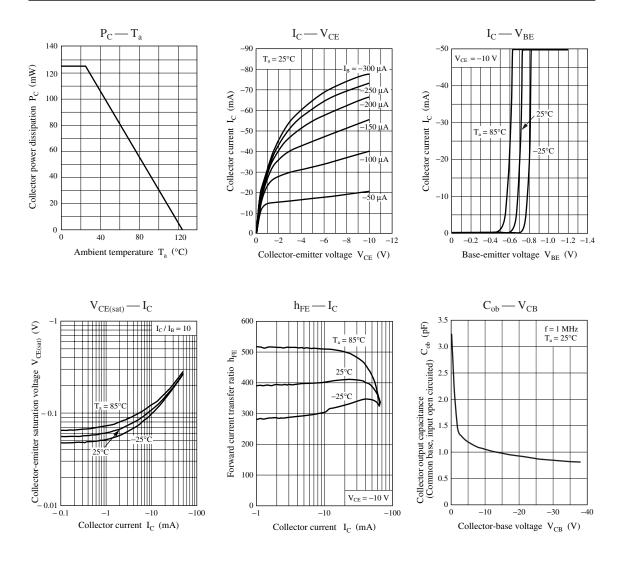
### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	$I_{\rm C} = -10 \ \mu A, \ I_{\rm E} = 0$	-50			V
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	$I_{\rm C} = -1  {\rm mA},  I_{\rm B} = 0$	-50			V
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	$I_{\rm E} = -10 \ \mu A, \ I_{\rm C} = 0$	-5			V
Collector-base cutoff current (Emitter open)	I <sub>CBO</sub>	$V_{CB} = -10 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I <sub>CEO</sub>	$V_{CE} = -10 \text{ V}, I_B = 0$			-100	μΑ
Forward current transfer ratio *	h <sub>FE</sub>	$V_{CE} = -10 \text{ V}, I_C = -2 \text{ mA}$	200		500	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = -1 \text{ mA}$		- 0.1	- 0.3	V
Transition frequency	f <sub>T</sub>	$V_{CB} = -10$ V, $I_E = 2$ mA, $f = 200$ MHz		250		MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		1.5		pF
(Common base, input open circuited)						

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

2. \*: Rank classification

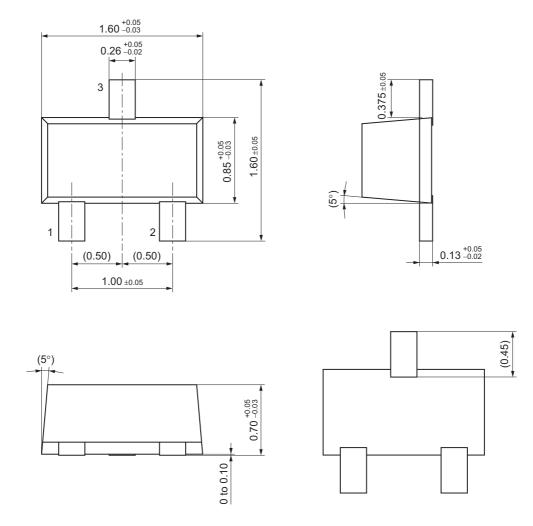
Rank	Q	R		
h <sub>FE</sub>	200 to 400	250 to 500		



## **Panasonic**

## SSMini3-F3

### Unit: mm



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