Transistors Panasonic

## 2SA2122G

## Silicon PNP epitaxial planar type

For general amplification Complementary to 2SC5950G

#### ■ Features

- High forward current transfer ratio h<sub>FE</sub>
- Smini typ 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>	-60	V	
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	-50	V	
Emitter-base voltage (Collector open)	$V_{\mathrm{EBO}}$	-7	V	
Collector current	$I_{\rm C}$	-100	mA	
Peak collector current	$I_{CP}$	-200	mA	
Collector power dissipation	$P_{\rm C}$	150	mW	
Junction temperature	T <sub>j</sub>	150	°C	
Storage temperature	T <sub>stg</sub>	-55 to +150	°C	

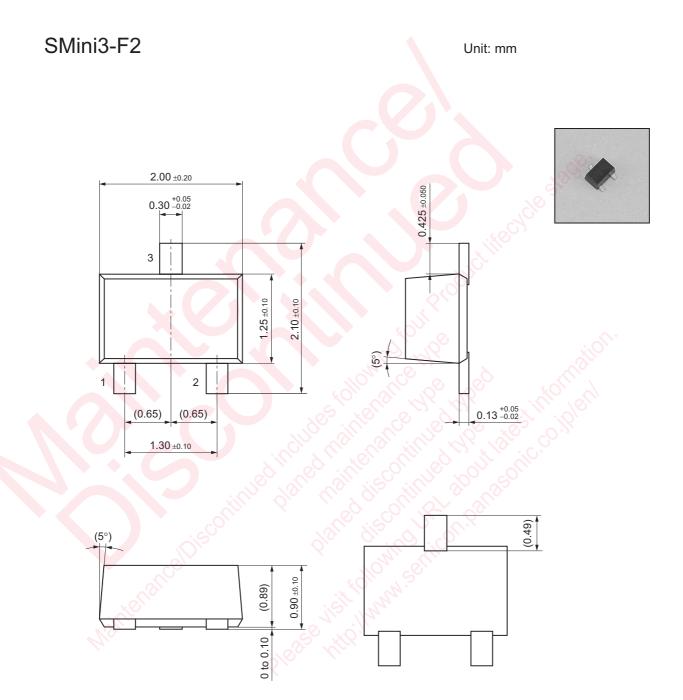
#### ■ Package

- Code
  - SMini3-F2
- Marking symbol : 7L
- Pin name
  - 1. Base
  - 2. Emitter
  - 3. Collector

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	$I_C = -10 \mu\text{A}, I_E = 0$	-60	10.		V
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-50	0//		V
Emitter-base voltage (Collector open)	$V_{\mathrm{EBO}}$	$I_E = -10 \mu\text{A}, I_C = 0$	-7			V
Collector-base cutoff current (Emitter open)	$I_{CBO}$	$V_{CB} = -20 \text{ V}, I_{E} = 0$	80		-0.1	μΑ
Collector-emitter cutoff current (Base open)	$I_{CEO}$	$V_{CE} = -10 \text{ V}, I_{B} = 0$			-100	μΑ
Forward current transfer ratio	$h_{FE}$	$V_{CE} = -10 \text{ V}, I_{C} = -2 \text{ mA}$	160		460	_
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	$I_{\rm C} = -100 \text{ mA}, I_{\rm B} = -10 \text{ mA}$		- 0.2	-0.5	V
Transition frequency	$f_T$	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$		80		MHz
Collector output capacitance (Common base, input open circuited)	C <sub>ob</sub>	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		2.2		pF

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



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