Transistors

# 2SC3936G

### Silicon NPN epitaxial planar type

For high-frequency amplification

#### Features

- Optimum for RF amplification, oscillation, mixing, and IF of FM/AM radios
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

#### Package

- Code
  - SMini3-F2
- Marking Symbol: K
- Pin Name
  - 1. Base
  - 2. Emitter
  - 3. Collector

#### Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	30	V	
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	20	V	
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	5	V	
Collector current	I <sub>C</sub>	30	mA	
Collector power dissipation	P <sub>C</sub>	150	mW	
Junction temperature	Tj	150	°C	
Storage temperature	T <sub>stg</sub>	-55 to +150	°C	

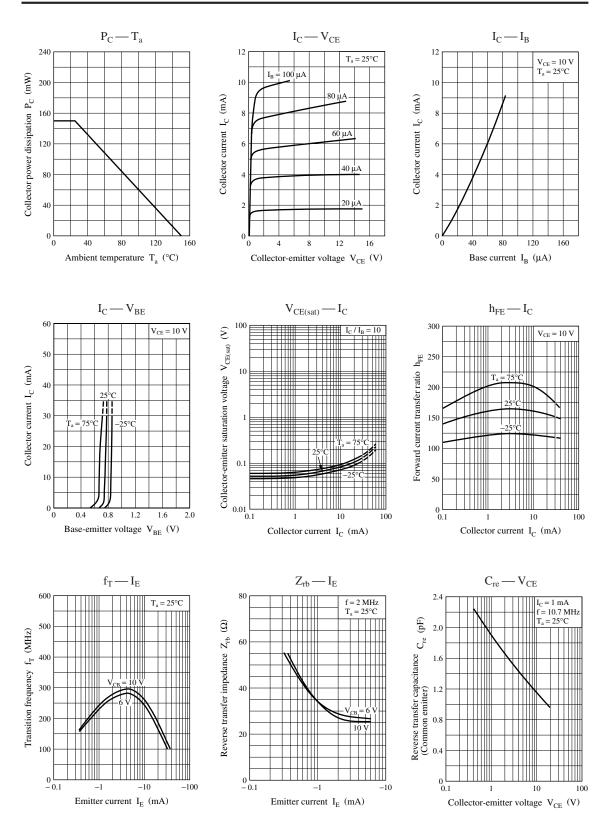
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

a						
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	$I_{C} = 10 \ \mu A, \ I_{E} = 0$	30			V
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	$I_{\rm C} = 2 \text{ mA}, I_{\rm B} = 0$	20			V
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	$I_E = 10 \ \mu A, \ I_C = 0$	5			V
Forward current transfer ratio *	h <sub>FE</sub>	$V_{CE} = 10 \text{ V}, I_C = 1 \text{ mA}$	70		250	_
Transition frequency	f <sub>T</sub>	$V_{CB} = 10 \text{ V}, I_E = -1 \text{ mA}, f = 200 \text{ MHz}$	150	230		MHz
Reverse transfer capacitance	C <sub>re</sub>	$V_{CB} = 10 \text{ V}, I_E = -1 \text{ mA}, f = 10.7 \text{ MHz}$		1.3		pF
(Common emitter)						

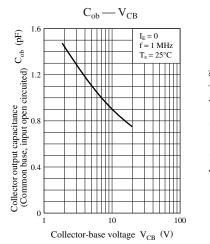
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors. 2. \*: Rank classification

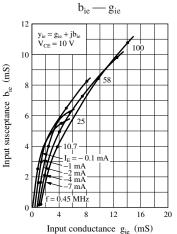
Rank	В	С
h <sub>FE</sub>	70 to 160	110 to 250

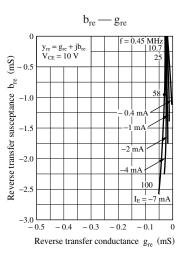
### Panasonic

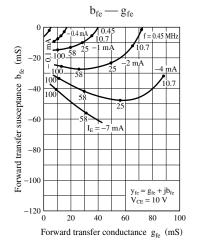


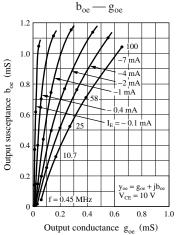
# **Panasonic** This product complies with the RoHS Directive (EU 2002/95/EC).







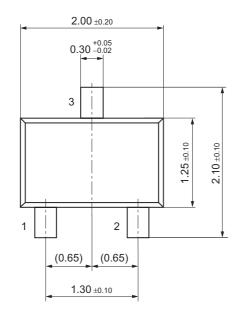


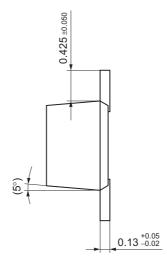


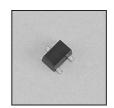
### **Panasonic**

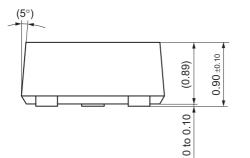
### SMini3-F2

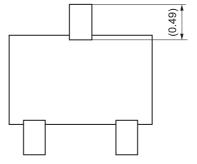
Unit: mm











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