#### Transistors

# 2SC6037G

#### Silicon NPN epitaxial planar type

For general amplification Complementary to 2SA2161G

#### Features

- Low collector-emitter saturation voltage  $V_{CE(sat)}$
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

Absolute Maximum Ratings $I_a = 25^{\circ}C$							
Parameter	Symbol	Rating	Unit				
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	15	V				
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	12	V				
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	5	V				
Collector current	I <sub>C</sub>	500	mA				
Peak collector current	I <sub>CP</sub>	1	А				
Collector power dissipation	P <sub>C</sub>	125	mW				
Junction temperature	Tj	125	°C				
Storage temperature	T <sub>stg</sub>	-55 to +125	°C				

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

#### Package

- Code
- SSMini3-F3
- Marking Symbol: 4U
- Pin Name
- 1: Base
- 2: Emitter
- 3: Collector

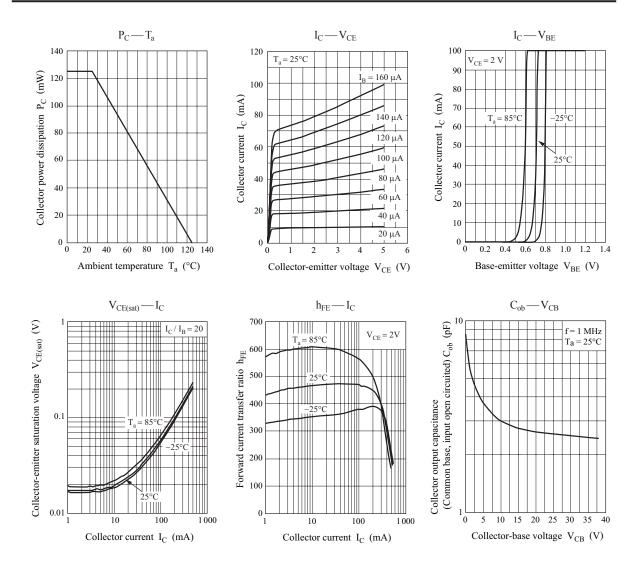
#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	$I_{\rm C} = 10 \ \mu A, I_{\rm E} = 0$	15			V
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	$I_{\rm C} = 1 \text{ mA}, I_{\rm B} = 0$	12			V
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	$I_{\rm E} = 10 \ \mu {\rm A}, \ I_{\rm C} = 0$	5			V
Collector-base cutoff current (Emitter open)	I <sub>CBO</sub>	$V_{CB} = 10 \text{ V}, I_E = 0$			0.1	μΑ
Forward current transfer ratio	h <sub>FE</sub>	$V_{CE} = 2 V, I_C = 10 mA$	270		680	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	$I_{\rm C} = 200 \text{ mA}, I_{\rm B} = 10 \text{ mA}$			250	mV
Transition frequency	f <sub>T</sub>	$V_{CB} = 2 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance (Common base, input open circuited)	C <sub>ob</sub>	$V_{CB} = 10 \text{ V}, f = 1 \text{ MHz}$		4.5		pF

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

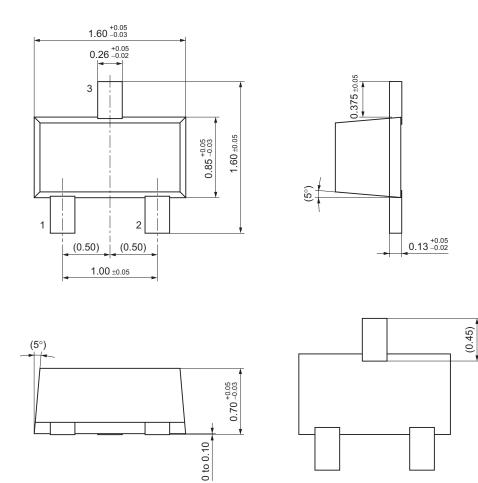
#### 2SC6037G

### **Panasonic**



### SSMini3-F3





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