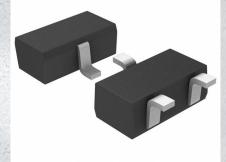


2SC5846G0L Datasheet

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DiGi Electronics Part Number	2SC5846G0L-DG
Manufacturer	Panasonic Electronic Components
Manufacturer Product Number	25C5846G0L
Description	TRANS NPN 50V 0.1A SSSMINI3
Detailed Description	Bipolar (BJT) Transistor NPN 50 V 100 mA 100MHz 1 00 mW Surface Mount SSSMini3-F2

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
2SC5846G0L	Panasonic Electronic Components
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
NPN	100 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
50 V	300mV @ 10mA, 100mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:
100μΑ	180 @ 2mA, 10V
Power - Max:	Frequency - Transition:
100 mW	100MHz
Operating Temperature:	Mounting Type:
125°C (TJ)	Surface Mount
Package / Case:	Supplier Device Package:
SOT-723	SSSMini3-F2
Base Product Number:	
2SC5846	

Environmental & Export classification

Moisture Sensitivity Level (MSL):	ECCN:
1 (Unlimited)	EAR99
HTSUS:	
8541.21.0075	

Transistors

Banasonic

2SC5846G

Silicon NPN epitaxial planar type

For general amplification

Features

- High forward current transfer ratio h_{FE}
- SSS-mini type package, allowing downsizing and thinning of the equipment and automatic insertion through the tape packing
- Package
- Code
 - SSSMini3-F2
- Marking Symbol: 7K
- Pin Name
 - 1. Base
 - 2. Emitter
 - 3. Collector

Absolute	Maximum	Ratings	$T_{2} = 25^{\circ}C$
- / 0001010	maximan	rialingo	$1_{a} - 25$ C

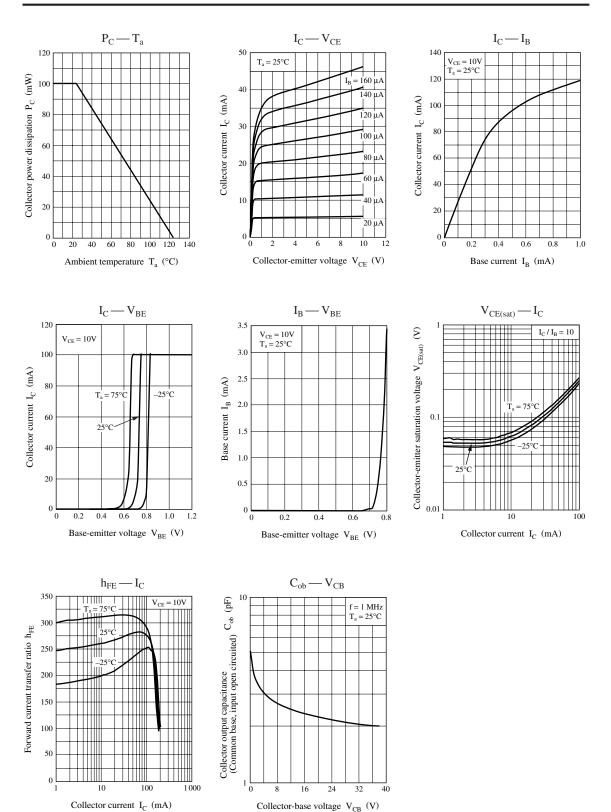
Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	60	v
Collector-emitter voltage (Base open)	V _{CEO}	50	V
Emitter-base voltage (Collector open)	V _{EBO}	7	v
Collector current	I _C	100	mA
Peak collector current	I _{CP}	200	mA
Collector power dissipation	P _C	100	mW
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to +125	°C

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

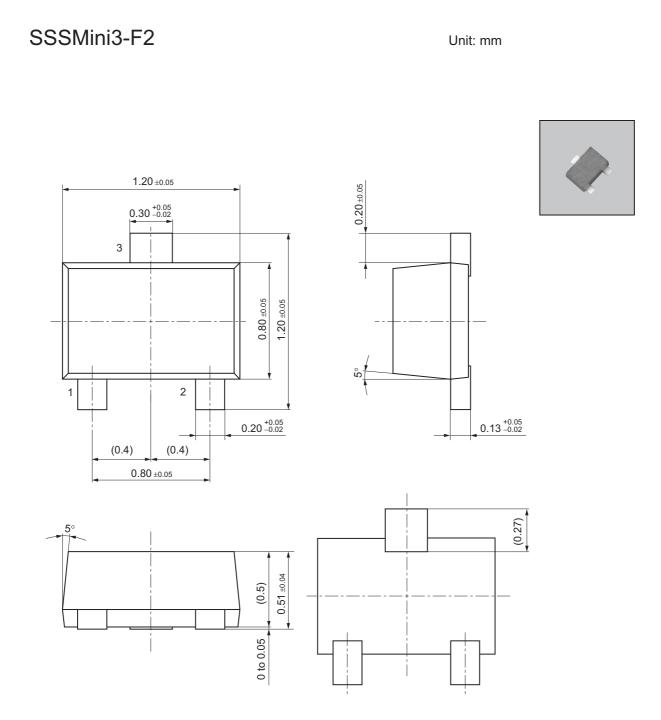
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \ \mu A, \ I_{\rm E} = 0$	60	25		V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = 2 \text{ mA}, I_{\rm B} = 0$	50	No.		V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = 10 \ \mu A, \ I_{\rm C} = 0$	70			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = 20 \text{ V}, I_E = 0$	0		0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = 10 V, I_B = 0$	>		100	μΑ
Forward current transfer ratio	h _{FE}	$V_{CE} = 10 \text{ V}, I_C = 2 \text{ mA}$	180		390	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 100 \text{ mA}, I_{\rm B} = 10 \text{ mA}$		0.1	0.3	V
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		2.2		pF
Transition frequency	f _T	$V_{CB} = 10 \text{ V}, I_E = -2 \text{ mA}, f = 200 \text{ MHz}$		100		MHz

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

2SC5846G



Panasonic



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