Unit: mm

0.12^{+0.03}

2SC4627J

Silicon NPN epitaxial planar type

For high-frequency amplification

Features

- Optimum for RF amplification of FM/AM radios
- \bullet High transition frequency $f_{\rm T}$
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

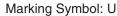
and	
nit	
V	6 F
V	1: Base 2: Emitter
V	2: Emitter 3: Collector
ıА	EIAJ: SC-89
	SSMini3-F1 Package
W	

 $1.60^{+0.0}_{-0.0}$

1.00+0.05

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

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	30	V
Collector-emitter voltage (Base open)	V _{CEO}	20	V
Emitter-base voltage (Collector open)	V _{EBO}	3	V
Collector current	I _C	15	mA
Collector power dissipation	P _C	125	mW
Junction temperature	Tj	125	°C
Storage temperature	T _{stg}	-55 to +125	°C



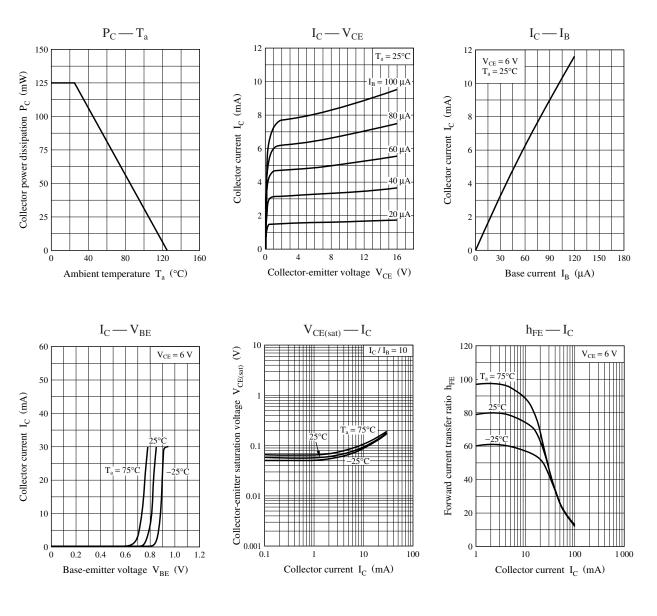
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

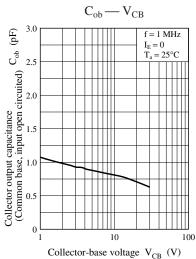
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \ \mu A, \ I_{\rm E} = 0$	30			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = 10 \ \mu A, \ I_{\rm C} = 0$	3			V
Base-emitter voltage	V _{BE}	$V_{CB} = 6 V, I_E = -1 mA$		720		mV
Forward current transfer ratio *	h _{FE}	$V_{CB} = 6 V, I_E = -1 mA$	65		160	
Transition frequency	f _T	$V_{CB} = 6 \text{ V}, I_E = -1 \text{ mA}, f = 200 \text{ MHz}$	450	650		MHz
Reverse transfer capacitance (Common emitter)	C _{re}	$V_{CB} = 6 V, I_E = -1 mA, f = 10.7 MHz$		0.8	1.0	pF
Power gain	PG	$V_{CB} = 6 V, I_E = -1 mA, f = 100 MHz$		24		dB
Noise figure	NF	$V_{CB} = 6 V, I_E = -1 mA, f = 100 MHz$		3.3		dB

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

Rank	С
h _{FE}	65 to 160

Panasonic





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