2SC4627G

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

Package

- Code
 - SSMini3-F3
- Marking Symbol: U
- 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 _{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 $T_a = 25^{\circ}C \pm 3^{\circ}C$

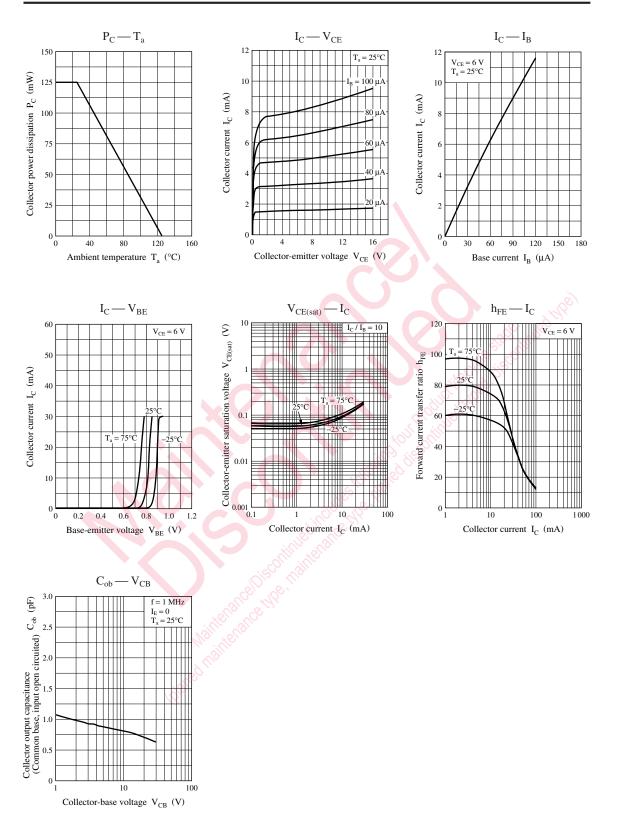
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \ \mu A, I_{\rm E} = 0$	30			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = 10 \ \mu A, I_C = 0$	3			V
Base-emitter voltage	V _{BE}	$V_{CB} = 6 V, I_E = -1 mA$		720		mV
Forward current 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)	Cre	$V_{CB} = 6 \text{ V}, I_E = -1 \text{ mA}, f = 10.7 \text{ MHz}$		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

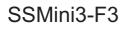
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

^{2. *:} Rank classification

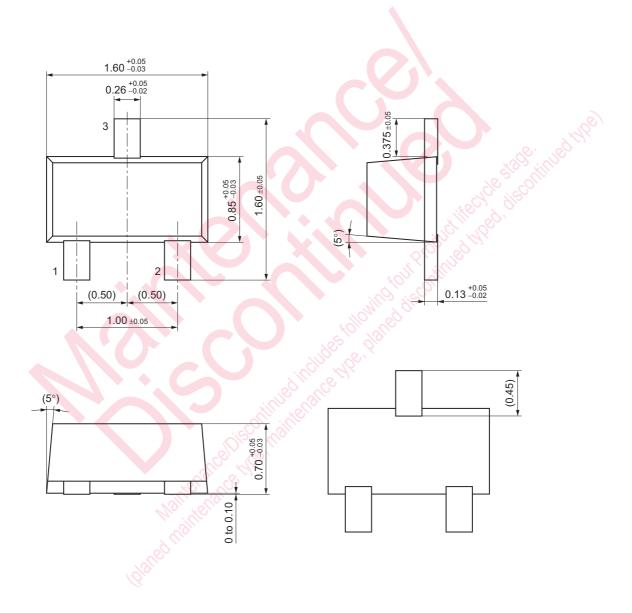
Rank	С		
h_{FE}	65 to 160		

Panasonic





Unit: mm



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