

2SC3932G

Silicon NPN epitaxial planar type

For high-frequency amplification/oscillation/mixing

■ Features

- High transition frequency f_T
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

■ 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}	50	mA	
Collector power dissipation	P_{C}	150	mW	
Junction temperature	T _j	150	°C	
Storage temperature	T_{stg}	-55 to +150	°C	

Package

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

■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_C = 100 \mu\text{A}, I_E = 0$	30			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = 10 \mu\text{A}, I_C = 0$	3			V
Base-emitter voltage	V_{BE}	$V_{CB} = 10 \text{ V}, I_E = -2 \text{ mA}$	1.90	720		mV
Forward current transfer ratio	h _{FE}	$V_{CB} = 10 \text{ V}, I_E = -2 \text{ mA}$	25		250	_
Transition frequency *	f_T	$V_{CB} = 10 \text{ V}, I_E = -15 \text{ mA}, f = 200 \text{ MHz}$	800		1600	MHz
Reverse transfer capacitance (Common base)	C _{rb}	$V_{CE} = 6 \text{ V}, I_C = 0, f = 1 \text{ MHz}$		0.8		pF
Reverse transfer capacitance (Common emitter)	C _{re}	$V_{CB} = 10 \text{ V}, I_E = -1 \text{ mA}, f = 10.7 \text{ MHz}$		1.0	1.5	pF
Power gain	G_{P}	$V_{CB} = 10 \text{ V}, I_E = -1 \text{ mA}, f = 200 \text{ MHz}$		20		dB

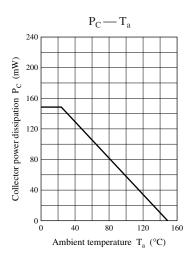
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

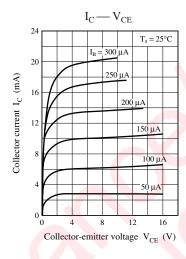
2. *: Rank classification

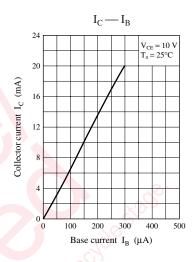
Rank	Т	S	No-rank
f_T	800 to 1400	1000 to 1600	800 to 1600
Marking symbol	RT	RS	R

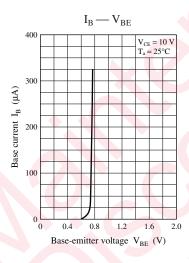
Product of no-rank is not classified and have no indication for rank.

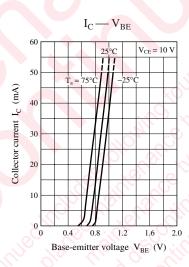
Panasonic

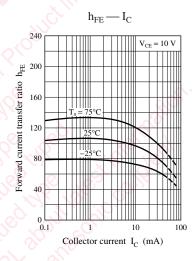


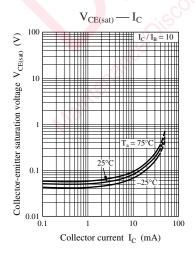


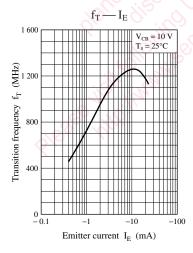


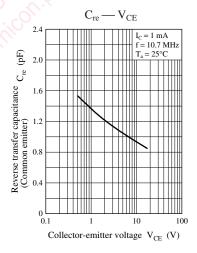




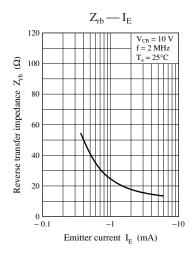


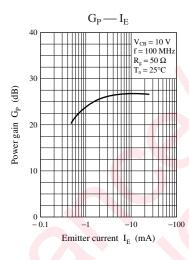


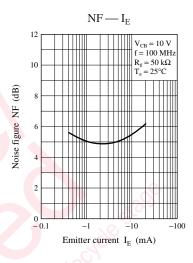


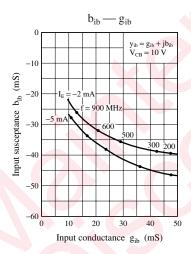


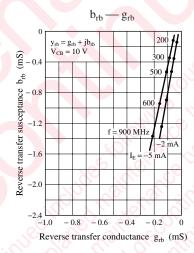
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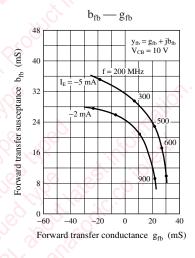


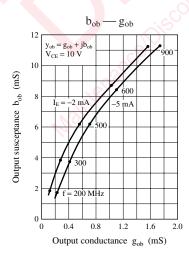




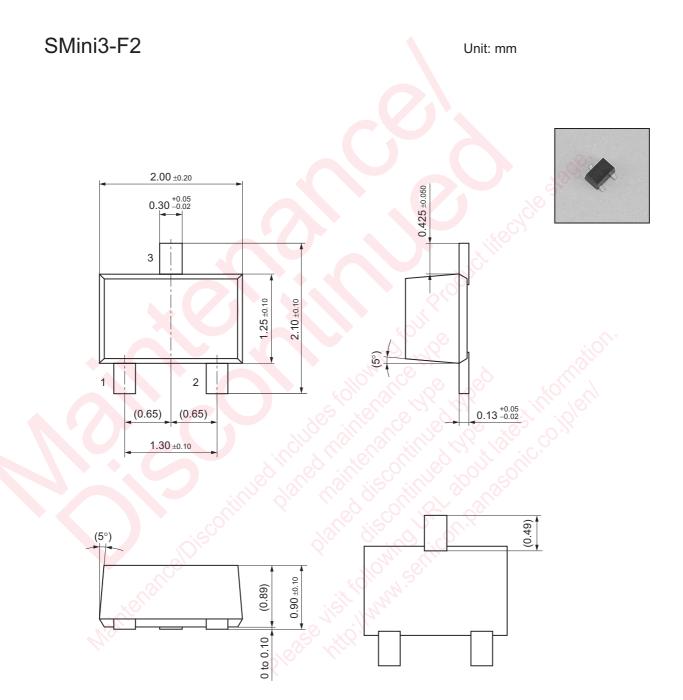








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