2SC5632G

Silicon NPN epitaxial planar type

For high-frequency amplification and switching

Features

- High transition frequency f_T
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing
- Package
- Code
 SMini3-F2
- Marking Symbol: 2R
- Pin Name
 - 1: Base
 - 2: Emitter
 - 3: Collector

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

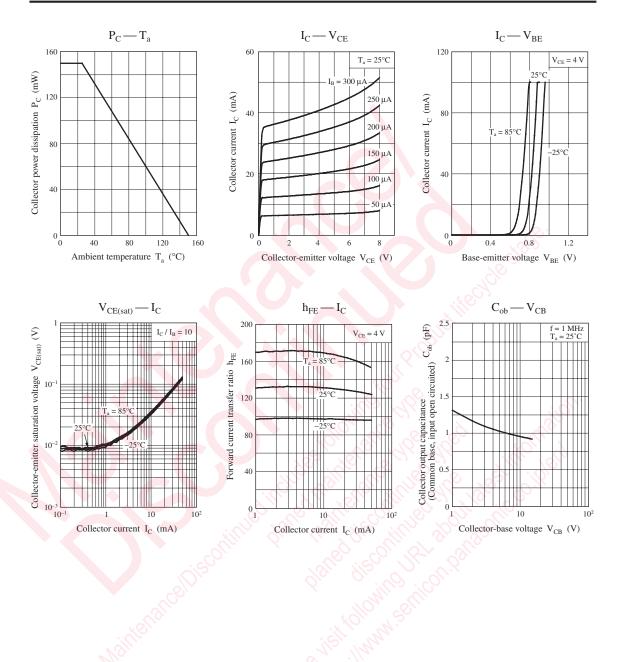
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Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	15	V
Collector-emitter voltage (Base open)	V _{CEO}	8	V
Emitter-base voltage (Collector open)	V _{EBO}	3	v
Collector current	I _C	50	mA
Collector power dissipation	P _C	150	mW
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

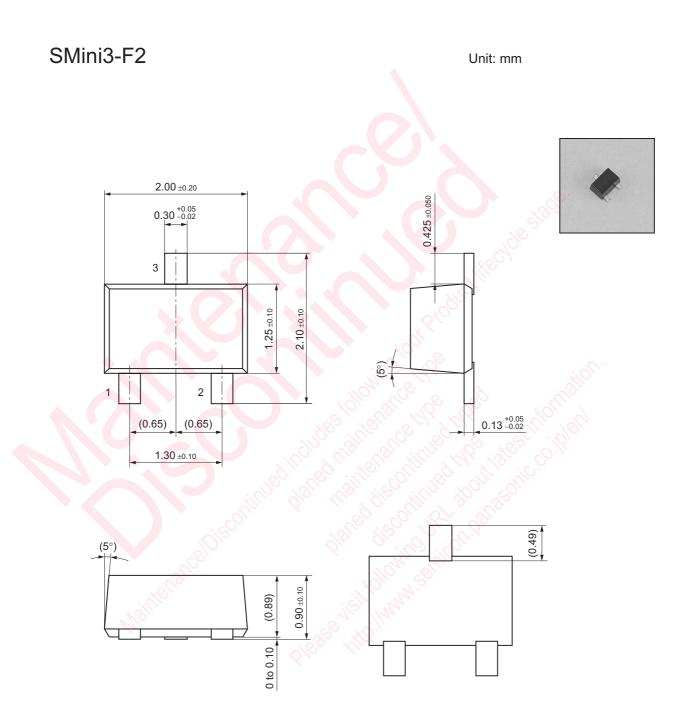
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 100 \ \mu A, I_{\rm E} = 0$	15	SOL		V
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = 2 V, I_C = 0$	Jan 1	0-	2	μΑ
Forward current transfer ratio	h _{FE}	$V_{CE} = 4 V, I_C = 2 mA$	100		350	—
h _{FE} ratio *	Δh_{FE}	h_{FE2} : $V_{CE} = 4 V$, $I_C = 100 \mu A$	0.6		1.5	_
The second secon		h_{FE1} : $V_{CE} = 4 V, I_C = 2 mA$				
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = 20 \text{ mA}, I_B = 4 \text{ mA}$			0.1	V
Transition frequency	f _T	$V_{CE} = 5 \text{ V}, I_{C} = 15 \text{ mA}, f = 200 \text{ MHz}$	0.6	1.1		GHz
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		1.0	1.6	pF
(Common base, input open circuited)		and the second s				

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors. 2. $*: \Delta h_{FE} = h_{FE2} / h_{FE1}$

Panasonic





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