2SD2623G

Silicon NPN epitaxial planar type

For low-frequency amplification

■ Features

- Low ON resistance Ron
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing.

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	25	V	
Collector-emitter voltage (Base open)	V _{CEO}	20	V	
Emitter-base voltage (Collector open)	V_{EBO}	12	V	
Collector current	I_{C}	0.5	A	
Peak collector current	I_{CP}	1	A	
Collector power dissipation	P_{C}	150	mW	
Junction temperature	T _j	150	°C	
Storage temperature	T_{stg}	-55 to +150	°C	

Package

- CodeSMini3-F2
- Marking Symbol: 2V
- 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}	$I_C = 10 \mu\text{A}, I_E = 0$	25			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = 1 \text{ mA}, I_B = 0$	20	5		V
Emitter-base voltage (Collector open)	$V_{\rm EBO}$	$I_E = 10 \mu A, I_C = 0$	12			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = 25 \text{ V}, I_{E} = 0$	7.7		100	nA
Forward current transfer ratio *1, 2	h _{FE}	$V_{CE} = 2 \text{ V}, I_{C} = 0.5 \text{ A}$	200		800	_
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_C = 0.5 \text{ A}, I_B = 20 \text{ mA}$		0.14	0.40	V
Base-emitter saturation voltage *1	V _{BE(sat)}	$I_C = 0.5 \text{ A}, I_B = 50 \text{ mA}$			1.2	V
Transition frequency	f_T	$V_{CB} = 10 \text{ V}, I_E = -50 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$ 10		10		pF
ON resistanse *3	R _{on}	Se ,		1.0		Ω

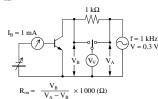
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

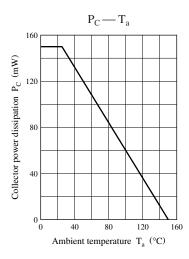
2. *1: Pulse measurement

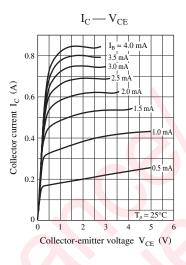
*2: Rank classification

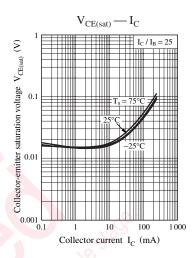
Rank	R	S	Т
h_{FE}	200 to 350	300 to 500	400 to 800

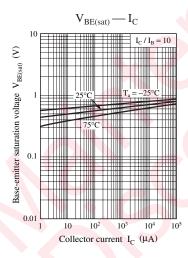
*3: R_{on} Measuremet circuit

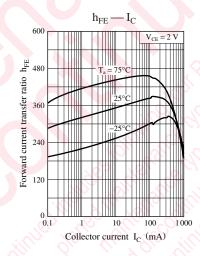


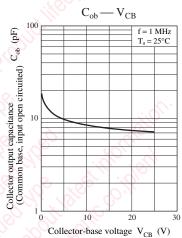




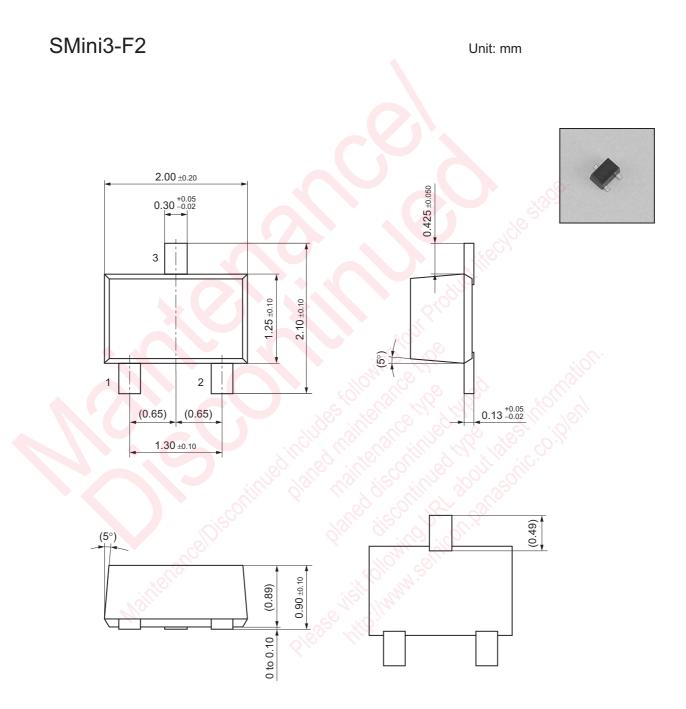








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