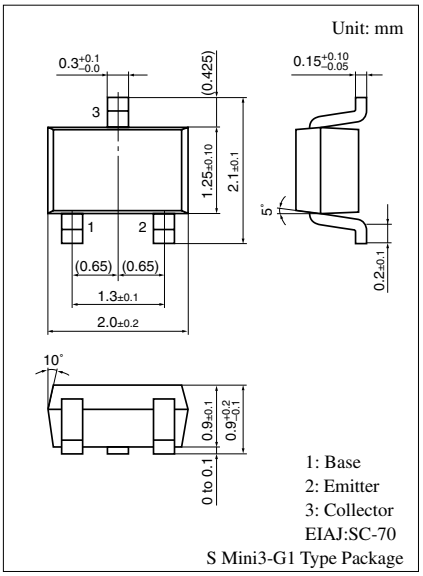
2SC5632

Silicon NPN epitaxial planer type

For high-frequency amplification and switching



Marking Symbol: 2R

■ Features

- High transition frequency f_T
- Smini3-G1 type package, allowing downsizing and thinning of the equipment and automatic insertion through the tape packing

■ Absolute Maximum Ratings $T_a = 25°C$

Parameter	Symbol	Rating	Unit
Collector to base voltage	V_{CBO}	15	V
Collector to emitter voltage	V_{CEO}	8	V
Emitter to base voltage	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

■ Electrical Characteristics $T_a = 25°C \pm 3°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Emitter cutoff current	I_{EBO}	V_{EB} = 2 V, I_C = 0			2	µA
Collector to base voltage	V_{CBO}	I_C = 100 µA, I_E = 0	15			V
Forward current transfer ratio	h_{FE}	V_{CE} = 4 V, I_C = 2 mA	100		350	
Ratio forward current transfer ratio	$h_{FE(RATIO)}$	V_{CE} = 4 V, I_C = 100 µA/2 mA	0.6		1.5	
Collector to emitter saturation voltage	$V_{CE(sat)}$	I_C = 20 mA, I_B = 4 mA			0.5	V
Collector output capacitance	C_{ob}	V_{CB} = 10 V, I_E = 0, f = 1 MHz		1.0	1.6	pF
Transition frequency	f_T	V_{CE} = 5 V, I_C = 15 mA, f = 200 MHz	0.6	1.1		GHz

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