



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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2SC5632

Silicon NPN epitaxial planar type

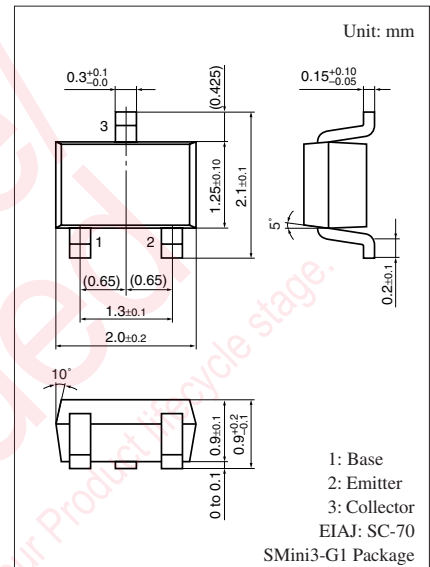
For high-frequency amplification and switching

■ Features

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

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

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	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$



Marking Symbol: 2R

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = 100 \mu\text{A}$, $I_E = 0$	15			V
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{EB} = 2 \text{ V}$, $I_C = 0$			2	μA
Forward current transfer ratio	h_{FE}	$V_{CE} = 4 \text{ V}$, $I_C = 2 \text{ mA}$	100		350	—
h_{FE} ratio *	Δh_{FE}	h_{FE2} : $V_{CE} = 4 \text{ V}$, $I_C = 100 \mu\text{A}$	0.6		1.5	—
		h_{FE1} : $V_{CE} = 4 \text{ V}$, $I_C = 2 \text{ mA}$				
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 (Common base, input open circuited)	C_{ob}	$V_{CB} = 10 \text{ V}$, $I_E = 0$, $f = 1 \text{ MHz}$		1.0	1.6	pF

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

2. *: $\Delta h_{FE} = h_{FE2} / h_{FE1}$

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