imall

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.

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Contact us

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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

SMini3-F2 Marking Symbol: 28

Package Code

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

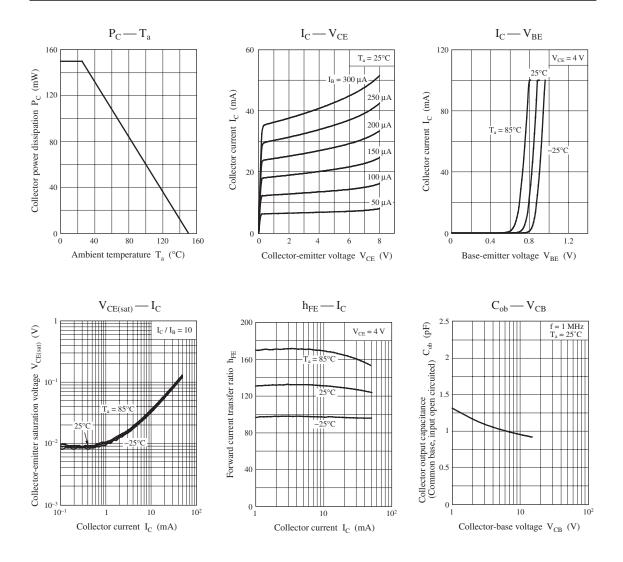
• S-Mini type package, allowing c	upment	Siviini3		~	\sim			
and automatic insertion through	 Marking Symbol; 280 							
• Pin N								
				1: Base		<u>}</u>		
					ter			
		500			\sim	×		
Absolute Maximum Rating	$S I_a = 2$	5°C		S. Colle		N.		
Parameter	Symbol	Rating	Unit	- M	1			
Collector-base voltage (Emitter open)	V _{CBO}	15	V	× °° ¢	SC .	~	s.	
Collector-emitter voltage (Base open)	V _{CEO}	8	V	0° 25		, cr Cle		
Emitter-base voltage (Collector open)	V _{EBO}	3	S.V.	, Co		SU.		
Collector current	I _C	50	mA	Se	S	`		
Collector power dissipation	P _C	150	Cow V		\sim			
Junction temperature	Tj	V150	°CN					
Storage temperature	T _{stg}	255 to +150	39	o's'				
	1	<u>40` :</u> (5	Č,				
	0~ <	0 ° X	×	\mathcal{O}				
<u>, </u>		<u></u>		•				
Electrical Characteristics	25°€	₹ 4 3°C	<u> </u>					
Parameter,	Symbo		Conditions		Min	Тур	Max	Γ
Collector-base voltage (Emitter open)		· 22 0	A, $I_{\rm E} = 0$		15			T
Emitter-base cutoff current (Collector open)	$\begin{array}{c c c c c c c c c c c c c c c c c c c $			t				
Forward current transfer ratio	- 				100		350	t
			-					-

Electrical Characteristics

	$C \sim$					
Parameter 0	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitte Open)	Сво	$\mathbf{F}_{\mathrm{C}} = 100$ \mathbf{H} A, $\mathbf{I}_{\mathrm{E}} = 0$	15			V
Emitter-base cutoff current (Collector open)	IEBO	$V_{EB} = 2 V, I_C = 0$			2	μΑ
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} : $V_{CE} = 4 V$, $I_C = 100 \mu A$	0.6		1.5	_
alt of all of	\mathcal{L}	h_{FE1} : $V_{CE} = 4 V$, $I_C = 2 mA$				
Coffector-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, mput open circuited)						

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

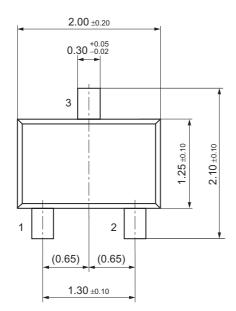
Panasonic

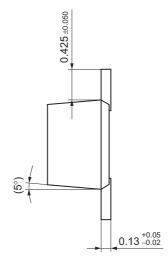


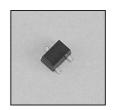
Panasonic

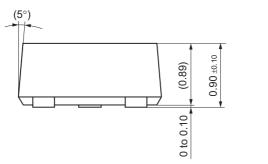
SMini3-F2

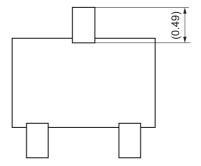
Unit: mm











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