

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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XN01558

Silicon NPN epitaxial planar type

For low-frequency amplification

■ Features

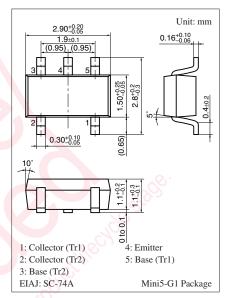
- Two elements incorporated into one package (Emitter-coupled transistors)
- Reduction of the mounting area and assembly cost by one half

■ Basic Part Number

• 2SD2623 × 2

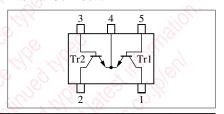
■ Absolute Maximum Ratings $T_a = 25$ °C

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	
Total power dissipation	P_{T}	300	mW	
Junction temperature	T _j	150	°C	
Storage temperature	T_{stg}	-55 to +150	°C	



Marking Symbol: 4Z

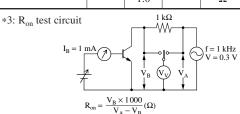
Internal Connection

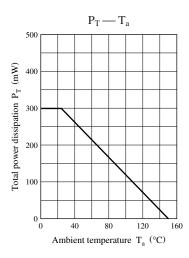


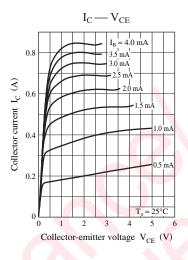
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

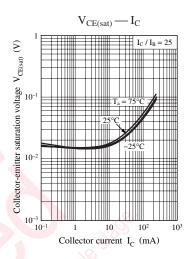
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = 10 \mu\text{A}, I_E = 0$	25	5		V
Collector-emitter voltage (Base open)	V_{CEO}	$I_C = 1 \text{ mA}, I_B = 0$	20			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = 10 \ \mu A, I_C = 0$	12			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = 25 \text{ V}, I_{E} = 0$	7		100	nA
Forward current transfer ratio *1	h_{FE}	$V_{CE} = 2 \text{ V}, I_{C} = 0.5 \text{ A}$	200		800	_
h _{FE} ratio *1, 2	h _{FE(Small}	$V_{CE} = 2 \text{ V}, I_{C} = 0.5 \text{ A}$	0.50	0.99		_
ille in the second	/Large)	is un				
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	se-emitter saturation voltage *1 $V_{BE(sat)}$ $I_C = 0.5 \text{ A}, I_B = 50 \text{ mA}$				1.2	V
Transition frequency	$f_{\rm T}$ $V_{\rm CB} = 10 \text{ V}, I_{\rm E} = -50 \text{ mA}, f = 200 \text{ MHz}$			200		MHz
Collector output capacitance	Cob	$V_{CB} = 10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$		10		pF
(Common base, input open circuited)						
ON resistanse *3	R _{on}			1.0		Ω

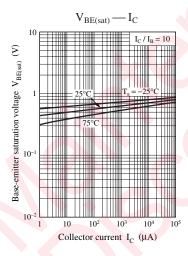
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.
 - 2. *1: Pulse measurement
 - *2: Ratio between one and another device

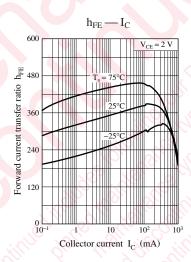


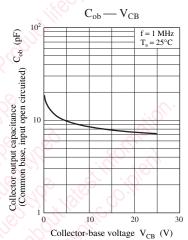












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