XN01558

Silicon NPN epitaxial planar type

For low-frequency amplification

■ Features

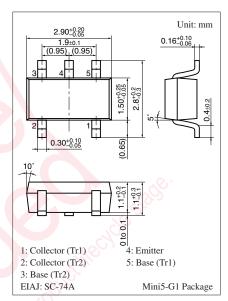
- Two elements incorporated into one package (Emitter-coupled transistors)
- Reduction of the mounting area and assembly cost by one half

■ Basic Part Number

• 2SD2623 × 2

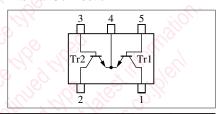
■ Absolute Maximum Ratings $T_a = 25$ °C

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

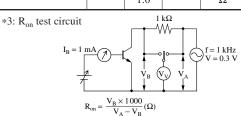
Internal Connection

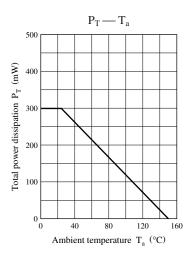


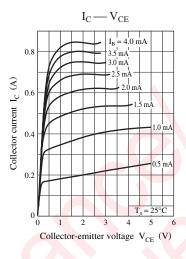
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

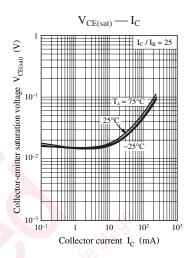
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = 10 \mu\text{A}, I_E = 0$	25	5		V
Collector-emitter voltage (Base open)	V_{CEO}	$I_C = 1 \text{ mA}, I_B = 0$	20			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = 10 \ \mu A, I_C = 0$	12			V
Collector-base 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		_
	/Large)	is who				
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	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

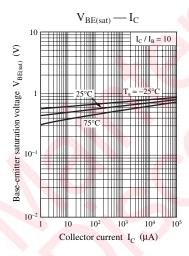
- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.
 - 2. *1: Pulse measurement
 - *2: Ratio between one and another device

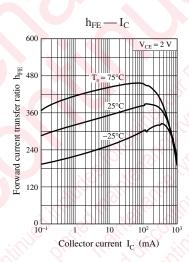


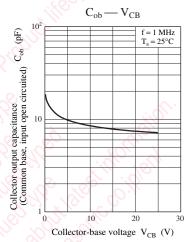












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