XN01501G

Silicon NPN epitaxial planar type

For general 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

• 2SD0601A \times 2

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

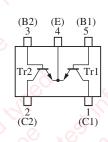
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Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	60	V	
Collector-emitter voltage (Base open)	V _{CEO}	50	V	
Emitter-base voltage (Collector open)	V _{EBO}	7	V	
Collector current	I _C	100	mA	
Peak collector current	I _{CP}	200	mA	
Total power dissipation	P _T	300	mW	
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55 to +150	<°C	

Package

- Code
- Mini5-G2
- Pin Name
 1: Collector (Tr1)
 2: Collector (Tr2)
 3: Base (Tr2)

Marking Symbol: 5R

Internal Connection



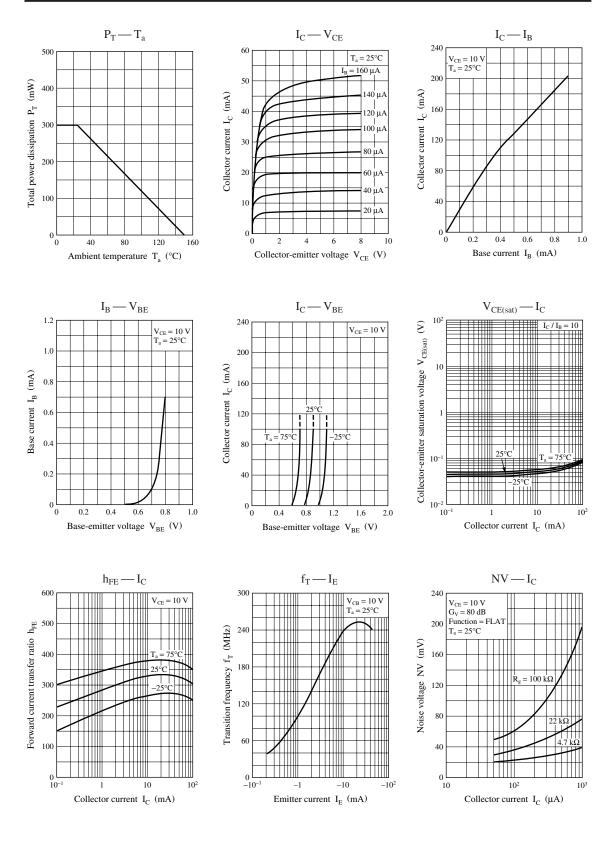
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \ \mu {\rm A}, I_{\rm E} = 0$	60			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = 2 \text{ mA}, I_{\rm B} = 0$	50			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = 10 \mu {\rm A}, I_{\rm C} = 0$	7			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = 20 \text{ V}, I_E = 0$			0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = 10 \text{ V}, I_B = 0$			100	μΑ
Forward current transfer ratio	h _{FE}	$V_{CE} = 10 V, I_C = 2 mA$	160		460	
h _{FE} ratio	h _{FE(Small/}	$V_{CE} = 10 \text{ V}, I_C = 2 \text{ mA}$	0.50	0.99		
NON CONTRACTOR	Large)	S				
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 100 \text{ mA}, I_{\rm B} = 10 \text{ mA}$		0.1	0.3	V
Transition frequency	f _T	$V_{CB} = 10 \text{ V}, I_E = -2 \text{ mA}, f = 200 \text{ MHz}$		150		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		3.5		pF
(Common base, input open circuited)						

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors. 2. *: Ratio between 2 elements

XN01501G

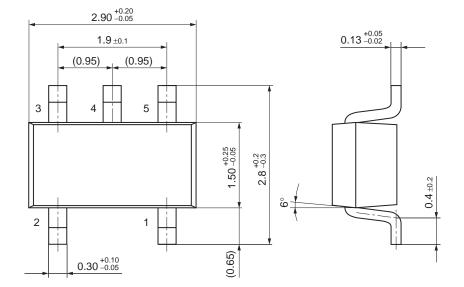
Panasonic

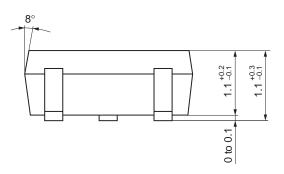


Panasonic

Mini5-G2

Unit: mm





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