

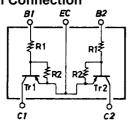
FC121

PNP Epitaxial Planar Silicon Composite Transistor
Switching Applications
(with Bias Resistance)

Features

- · On-chip bias resistances (R1=2.2k Ω , R2=10k Ω).
- · Composite type with 2 transistors contained in the CP package currently in use, improving the mounting efficiency greatly.
- The FC121 is formed with two chips, being equivalent to the 2SA1502, placed in one package.
- · Excellent in thermal equilibrium and pair capability.

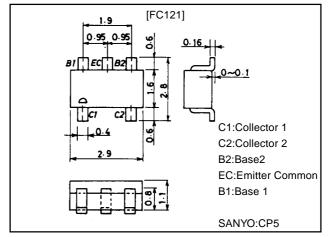
Electrical Connection



Package Dimensions

unit:mm

2066



Specifications

Absolute Maximum Ratings at Ta = 25°C

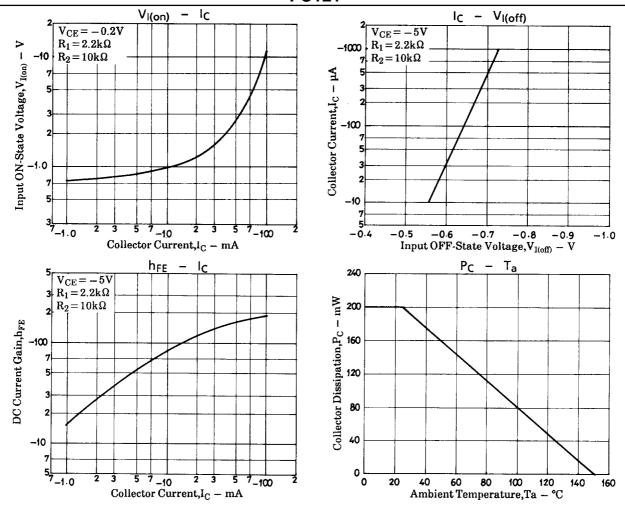
Symbol	Conditions	Ratings	Unit
V _{CBO}		-50	V
VCEO		-50	V
VEBO		-6	V
lС		-100	mA
I _{CP}		-200	mA
PC	1 unit	200	mW
PT		300	mW
Tj		150	°C
Tstg		-55 to +150	°C
	VCBO VCEO VEBO IC ICP PC PT Tj	VCBO VCEO VEBO IC ICP PC 1 unit PT Tj	VCBO -50 VCEO -50 VEBO -6 IC -100 ICP -200 PC 1 unit 200 PT 300 Tj 150

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Oill
Collector Cutoff Current	I _{CBO}	V _{CB} =-40V, I _E =0			-0.1	μA
Collector Cutoff Current	ICEO	V _{CE} =-40V, I _B =0			-0.5	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =-5V, I _C =0	-315	-410	-590	μA
DC Current Gain	hFE	V _{CE} =-5V, I _C =-10mA	50			
Gain-Bandwidth Product	fT	V _{CE} =-10V, I _C =-5mA		200		MHz
Output Capacitance	Cob	V _{CB} =-10V, f=1MHz		5.1		pF
C-E Saturation Voltage	VCE(sat)	I _C =-10mA, I _B =-0.5mA		-0.1	-0.3	V
C-B Breakdown Voltage	V(BR)CBO	I _C =-10μA, I _E =0	-50			V
C-E Breakdown Voltage	V(BR)CEO	I _C =-100μA, R _{BE} =∞	-50			V
Input OFF-State Voltage	V _{I(off)}	V _{CE} =-5V, I _C =-100μA	-0.5	-0.7	-0.9	V
Input ON-State Voltage	V _{I(on)}	V _{CE} =-0.2V, I _C =-10mA	-0.7	-1.0	-1.8	V
Input Resistance	R1		1.2	2.2	2.9	kΩ
Resistance Ratio	R1/R2		0.198	0.22	0.242	

Note: The specifications shown above are for each individual transistor.

Marking:121



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