Ordering number: EN3286



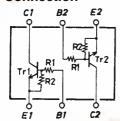
FC132

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

### **Features**

- · On-chip bias resistances (R1=10k $\Omega$ , R2=47k $\Omega$ ).
- · Composite type with 2 transistors contained in the CP package currently in use, improving the mounting efficiency greatly.
- The FC132 is formed with two chips, being equivalent to the 2SC4047, placed in one package.
- · Excellent in thermal equilibrium and pair capability.

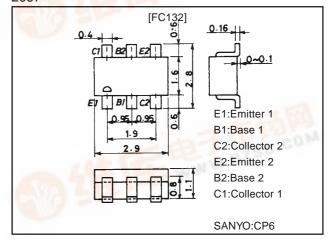
#### **Electrical Connection**



## **Package Dimensions**

unit:mm

2067



# **Specifications**

Absolute Maximum Ratings at Ta = 25°C

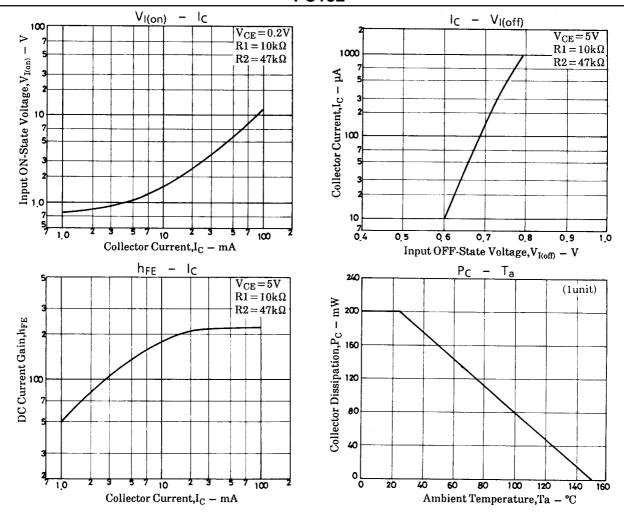
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V <sub>CBO</sub>		50	V
Collector-to-Emitter Voltage	VCEO	- 1 to 1 to 1	50	V
Emitter-to-Base Voltage	V <sub>EBO</sub>	AND A T-1 1-55	6	V
Collector Current	IC		100	mA
Peak Collector Current	ICP	CEO FOLIS -	200	mA
Collector Dissipation	PC	1 unit	200	mW
Total Power Dissipation	PT	COM	300	mW
Junction Temperature	DTj		150	°C
Storage Temperature	Tstg		−55 to +150	°C

### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditons		Ratings		
	Symbol		min	typ	max	Unit
Collector Cutoff Current	ICBO	V <sub>CB</sub> =40V, I <sub>E</sub> =0			0.1	μA
Collector Cutoff Current	ICEO	V <sub>CB</sub> =40V, I <sub>E</sub> =0	The way	W	0.5	μΑ
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =5V, I <sub>C</sub> =0	67	88	125	μΑ
DC Current Gain	hFE	V <sub>CE</sub> =5V, I <sub>C</sub> =5mA	70			
Gain-Bandwidth Product	fT	V <sub>CE</sub> =10V, I <sub>C</sub> =5mA		250		MHz
Output Capacitance	Cob	V <sub>CB</sub> =10V, f=1MHz		3.3		pF
C-E Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =10mA, I <sub>B</sub> =0.5mA		0.1	0.3	V
C-B Breakdown Voltage	V(BR)CBO	I <sub>C</sub> =10μA, I <sub>E</sub> =0	50			V
C-E Breakdown Voltage	V(BR)CEO	I <sub>C</sub> =100μA, R <sub>BE</sub> =∞	50			V
Input OFF-State Voltage	V <sub>I(off)</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =100μA	0.5	0.7	0.9	V
Input ON-State Voltage	V <sub>I(on)</sub>	V <sub>CE</sub> =0.2V, I <sub>C</sub> =5mA	0.7	1.0	2.0	V
Input Resistance	R1		7	10	13	kΩ
Resistacnce Ratio	R1/R2		0.193	0.213	0.234	

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

Marking:132



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