

SANYO**FC132**

NPN Epitaxial Planar Silicon Composite Transistor

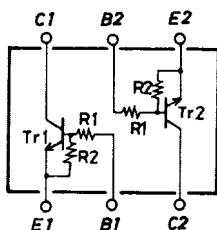
Switching Applications

(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.

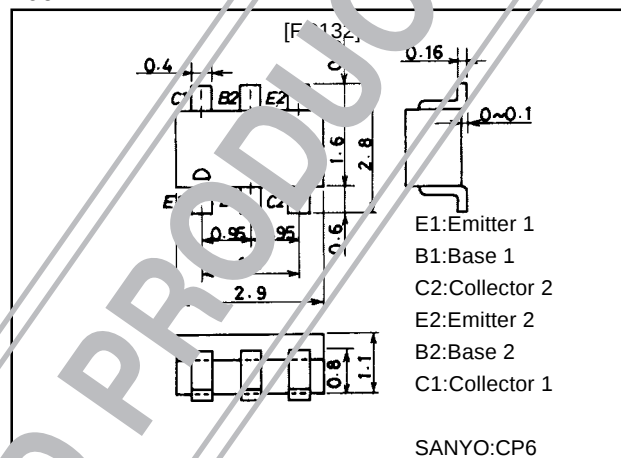
Electrical Connection



Package Dimensions

unit:mm

2067



Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CBO}		50	V
Collector-to-Emitter Voltage	V_{CEO}		50	V
Emitter-to-Base Voltage	V_{EBO}		6	V
Collector Current	I_C		100	mA
Peak Collector Current	I_{CP}		200	mA
Collector Dissipation	P_C	1 unit	200	mW
Total Power Dissipation	P_T		300	mW
Junction Temperature			150	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +150	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

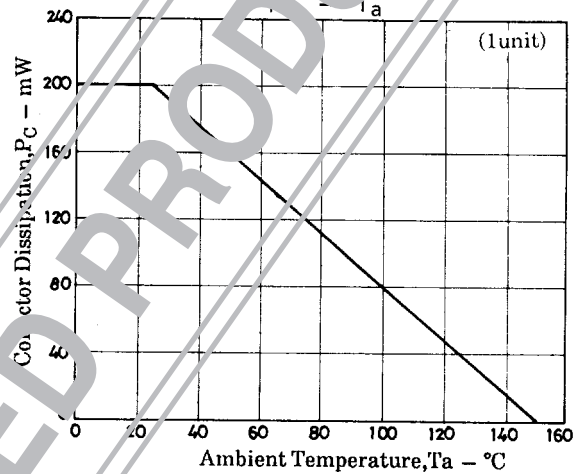
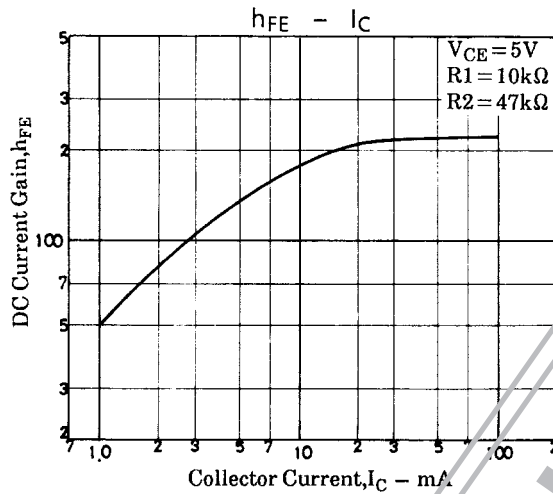
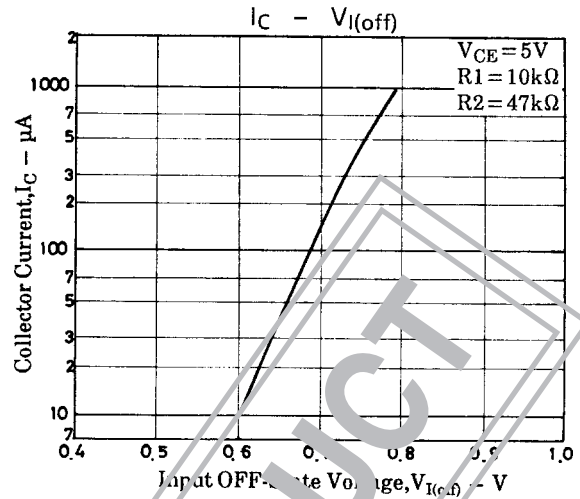
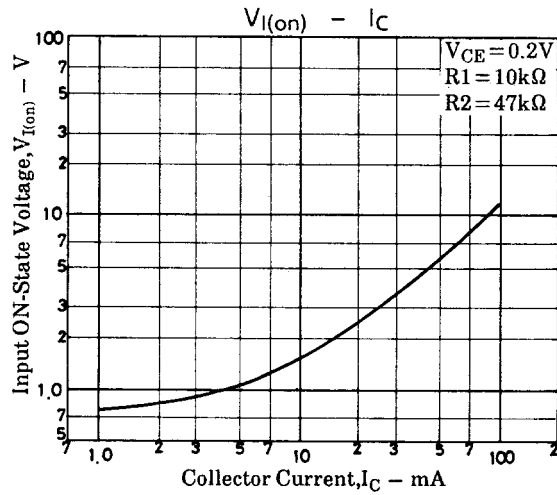
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB}=40\text{V}$, $I_E=0$			0.1	μA
Collector Cutoff Current	I_{CEO}	$V_{CB}=40\text{V}$, $I_E=0$			0.5	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=5\text{V}$, $I_C=0$	67	88	125	μA
DC Current Gain	h_{FE}	$V_{CE}=5\text{V}$, $I_C=5\text{mA}$	70			
Gain-Bandwidth Product	f_T	$V_{CE}=10\text{V}$, $I_C=5\text{mA}$		250		MHz
Output Capacitance	C_{ob}	$V_{CB}=10\text{V}$, $f=1\text{MHz}$		3.3		pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C=10\text{mA}$, $I_B=0.5\text{mA}$		0.1	0.3	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C=10\mu\text{A}$, $I_E=0$	50			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C=100\mu\text{A}$, $R_{BE}=\infty$	50			V
Input OFF-State Voltage	$V_{I(off)}$	$V_{CE}=5\text{V}$, $I_C=100\mu\text{A}$	0.5	0.7	0.9	V
Input ON-State Voltage	$V_{I(on)}$	$V_{CE}=0.2\text{V}$, $I_C=5\text{mA}$	0.7	1.0	2.0	V
Input Resistance	R_1		7	10	13	k Ω
Resistance Ratio	R_1/R_2		0.193	0.213	0.234	

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

Marking:132

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