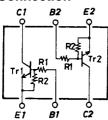


FC132 NPN Epitaxial Planar Silicon Composite Transistor Switching Applications (with Bias Resistance)

Features

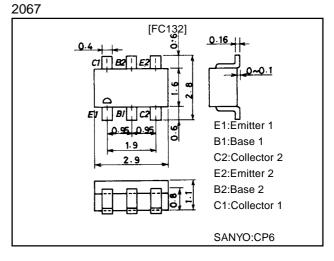
- · On-chip bias resistances (R1=10k Ω , R2=47k Ω).
- Composite type with 2 transistors contained in the CP package currently in use, improving the mounting efficiency greatly.
- The FC132 is formed with two chips, being equivalent to the 2SC4047, placed in one package.
- \cdot Excellent in thermal equilibrium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

Electrical Connection



Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		50	V
Collector-to-Emitter Voltage	VCEO		50	V
Emitter-to-Base Voltage	VEBO		6	V
Collector Current	IC		100	mA
Peak Collector Current	ICP		200	mA
Collector Dissipation	PC	1 unit	200	mW
Total Power Dissipation	PT		300	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

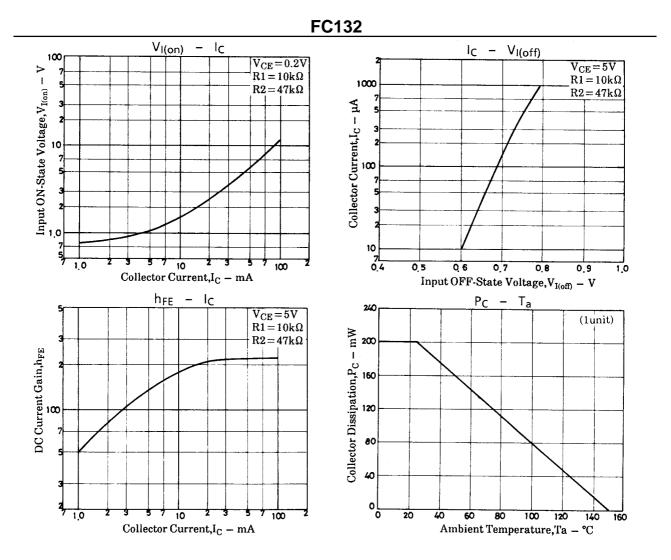
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =40V, I _E =0			0.1	μA
Collector Cutoff Current	ICEO	V _{CB} =40V, I _E =0			0.5	μΑ
Emitter Cutoff Current	IEBO	V _{EB} =5V, I _C =0	67	88	125	μA
DC Current Gain	hFE	V _{CE} =5V, I _C =5mA	70			
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =5mA		250		MHz
Output Capacitance	Cob	V _{CB} =10V, f=1MHz		3.3		pF
C-E Saturation Voltage	V _{CE(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 =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

SANYO Electric Co., Ltd. Semiconductor Bussiness Headquaters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN



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