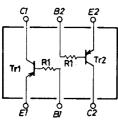


## FC123 PNP Epitaxial Planar Silicon Composite Transistor Switching Applications (with Bias Resistance)

## Features

- · On-chip bias resistance (R1=47k $\Omega$ ).
- Composite type with 2 transistors contained in the CP package currently in use, improving the mounting efficiency greatly.
- The FC123 is formed with two chips, being equivalent to the 2SA1508, placed in one package.
- $\cdot$  Excellent in thermal equilibrium and pair capability.

### **Electrical Connection**



## Specifications

#### Absolute Maximum Ratings at Ta = 25 C

Parameter	Syribol	Conditions	Ratings	Unit
Collector-to-Base Voltage	Усво		-50	V
Collector-to-Emitter Voltage	VCEC		-50	V
Emitter-to-Base Voltage	VERO		-5	V
Collector Current	'c	11	-100	mA
Peak Collector Current	CP 'CP		-200	mA
Collector Dissipation	۲ <sub>0</sub> 1 unit		200	mW
Total Power Dissipation	PT		300	mW
Junction Temperature			150	°C
Storage Temperature	Tstg		-55 to +150	°C

#### **Electrical Characteristics** It $Ta = 25^{\circ}C$

Parameter	Symoo!	Conditons	Ratings			Unit
Fallheter			min	typ	max	Unit
Collector Cutoff Current	ICBO	V <sub>CB</sub> =-40V, I <sub>E</sub> =0			-0.1	μΑ
Emitter Cutoff Current	ево	V <sub>EB</sub> =-5V, I <sub>C</sub> =0			-0.1	μA
DC Current Gain	hFE	V <sub>CE</sub> =-5V, I <sub>C</sub> =-10mA	100			
Gain-Bandwir th Produc	fT	V <sub>CE</sub> =-10V, I <sub>C</sub> =-5mA		200		MHz
Output Caracitance	Cob	V <sub>CB</sub> =-10V, f=1MHz		5.1		pF
C-E Saturation V age	VCE(sat)	I <sub>C</sub> =-5mA, I <sub>B</sub> =-0.25mA		-0.1	-0.3	V
C-B Б.eakuʻown Voi.	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	-0.4	-0.55	-0.8	V
Input ON-State Voltage	V <sub>I(on)</sub>	V <sub>CE</sub> =-0.2V, I <sub>C</sub> =-5mA	-0.8	-2.0	-4.0	V
Input Resistance	R1		33	47	61	kΩ

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

Marking:123

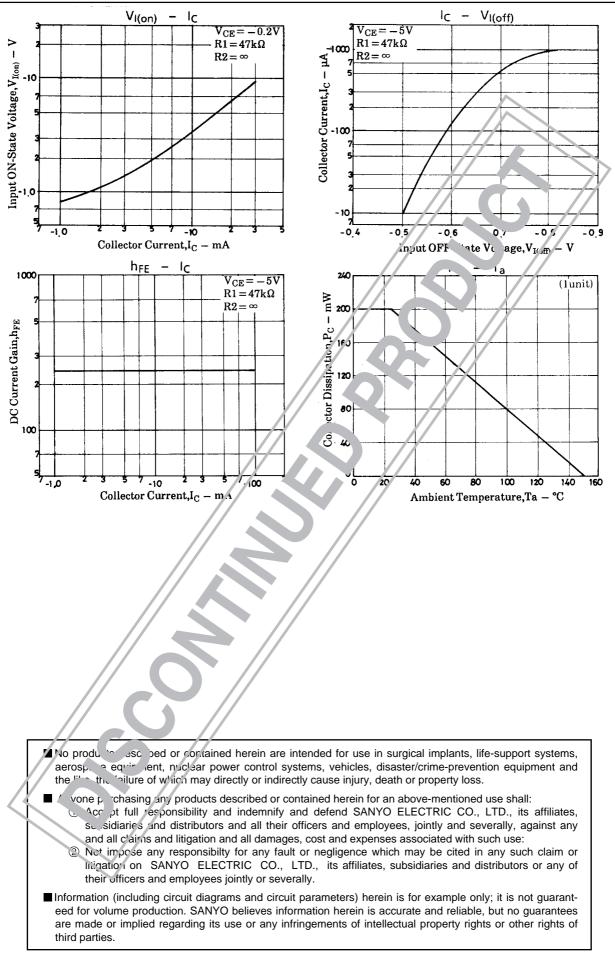
SANYO Electric Co., Ltd. Semiconductor Bussiness Headquaters

TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

# Package Dimensions

unit:mm 2067 [F 12; 0.16 0.4 d [] **62**[ 0~0.1 EU B/ E1:Emitter 1 B1:Base 1 C2:Collcector 2 E2:Emitter 2 B2:Base 2 C1:Collcetor 1

SANYO:CP6



This catalog provides information as of May, 1998. Specifications and information herein are subject to change without notice.

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