

FC108

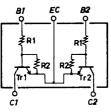
NPN Epitaxial Planar Silicon Composite Transistor

Switching Applications

Features

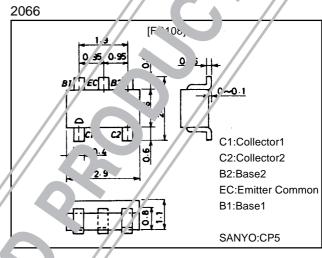
- · On-chip bias resistors (R1=47k Ω , R2=47k Ω)
- Composite type with 2 transistors contained in the CP package currently in use, improving the mounting efficiency greatly.
- The FC108 is formed with two chips, being equivalent to the 2SC3395, placed in one package.
- \cdot Excellent in thermal equilibrium and pair capability.

Electrical Connection



Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at $Ta = 25^{\circ}Q$

Parameter	Synbol	Crind' lions	Ratings	Unit
Collector-to-Base Voltage	VCBO		50	V
Collector-to-Emitter Voltage	^V CEO		50	V
Emitter-to-Base Voltage	VEBC		10	V
Collector Current			100	mA
Collector Current (Pulse)	2P		200	mA
Collector Dissipation	Pc unit	11	200	mW
Total Dissipation	P ₁		300	mW
Junction Temperature	Tj	/	150	°C
Storage Temperature			-55 to+150	°C

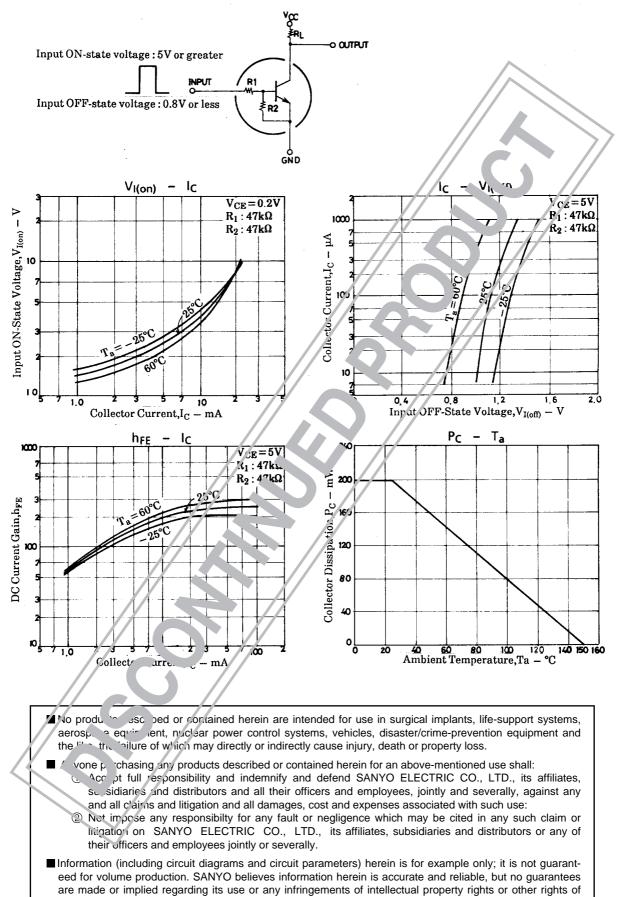
Electrical Characteristics . 10. 25 C

Derryahar	Symbol	Conditions	Ratings			Unit
Parumeter	Symbol		min	typ	max	Unit
Collector Cutoff Cutrent	¹ C'3O	V _{CB} =40V, I _E =0			0.1	μA
Collector Cutoff Current	CEO	V _{CE} =40V, I _B =0			0.5	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V, I _C =0	30	53	80	μA
DC Current Grun	hFE	V _{CE} =5V, I _C =5mA	50			
Gain-Bar,dv,idth Product	fT	V _{CE} =10V, I _C =5mA		250		MHz
Outpu! Capacitan	Cob	V _{CB} =10V, f=1MHz		3.3		pF
C-E Saturation Vo. re	V _{CE(sat)}	I _C =5mA. I _B =0.25mA		0.1	0.3	V
C-B Breakdown Voltage	V(BR)CBO	I _C =10µA, I _E =0	50			V
C-E Breakdown Vollage	V _(BR) CEO	I _C =100µA, R _{BE} =∞	50			V
Input OFF-State Voltage	V _{I(off)}	V _{CE} =5V, I _C =100µA	0.8	1.1	1.5	V
Input ON-State Voltage	V _{I(on)}	V _{CE} =0.2V, I _C =5mA	1.0	2.5	5.0	V
Input Resistance	R1		32	47	62	kΩ
Resistance Ratio	R1/R2		0.9	1.0	1.1	

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

Marking:107

Sample Application Circuit



third parties.

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

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