#### 查询FC106供应商



## WWW.

## FC106

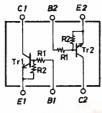
NPN Epitaxial Planar Silicon Composite Transistor

# **Switching Applications**

#### **Features**

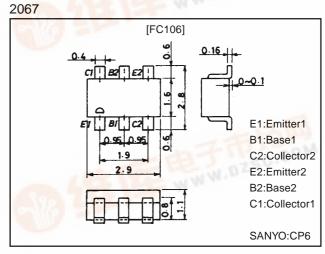
- · On-chip bias resistors ( $R_1$ =47k $\Omega$ ,  $R_2$ =47k $\Omega$ )
- Composite type with 2 transistors contained in the CP package currently in use, improving the mounting efficiency greatly.
- The FC106 is formed with two chips, being equivalent to the 2SC3395, placed in one package.
- Excellent 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	VCBO		50	V
Collector-to-Emitter Voltage	VCEO		50	V
Emitter-to-Base Voltage	VEBO		10	V
Collector Current	۱ <sub>C</sub>		100	mA
Collector Current (Pulse)	I <sub>CP</sub>		200	mA
Collector Dissipation	PC	1 unit	200	mW
Total Dissipation	PT	10 mil	300	mW
Junction Temperature	Tj	0.00	150	°C
Storage Temperature	Tstg		-55 to+150	°C

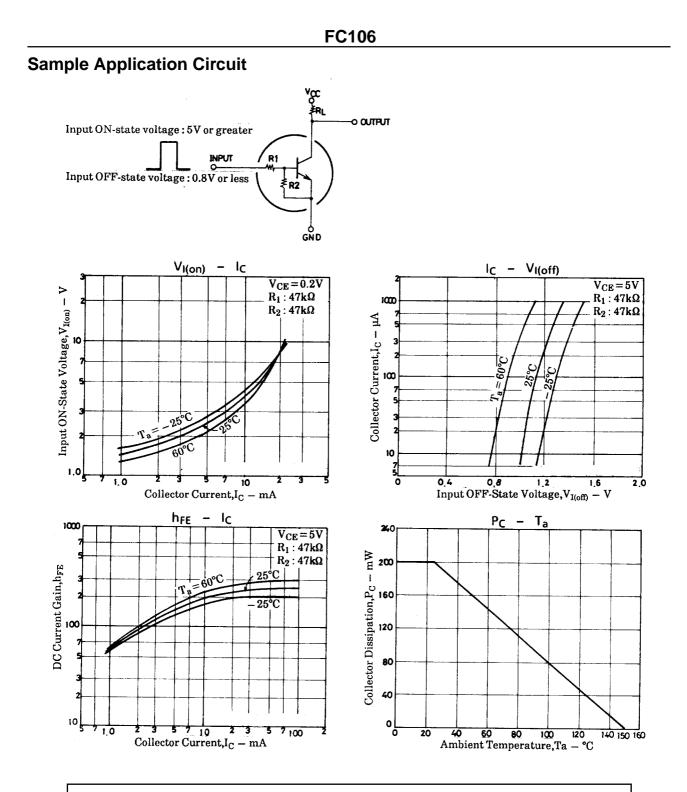
#### **Electrical Characteristics** at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
Parameter			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>CE</sub> =40V, I <sub>B</sub> =0	and the second second	10.04	0.5	μΑ
Emitter Cutoff Current	IEBO	V <sub>EB</sub> =5V, I <sub>C</sub> =0	30	53	80	μΑ
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =5mA	50			
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	VCE(sat)	I <sub>C</sub> =5mA. I <sub>B</sub> =0.25mA		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	0.8	1.1	1.5	V
Input ON-State Voltage	V <sub>I(on)</sub>	V <sub>CE</sub> =0.2V, I <sub>C</sub> =5mA	1.0	2.5	5.0	V
Input Resistance	R <sub>1</sub>		32	47	62	kΩ
Resistance Ratio	R <sub>1</sub> /R <sub>2</sub>		0.9	1.0	1.1	

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

Marking:106

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