

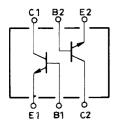
FC118

NPN Epitaxial Planar Silicon Composite Transistor
Low-Frequency
General-Purpose Amp Applications

Features

- · Composite type with 2 transistors contained in the CP package currently in use, improving the mounting efficiency greatly.
- The FC118 is formed with two chips, being equivalent to the 2SC4577, placed in one package.
- · Low collector to emitter saturation voltage.
- · Excellent in thermal equilibrium and pair capability.

Electrical Connection



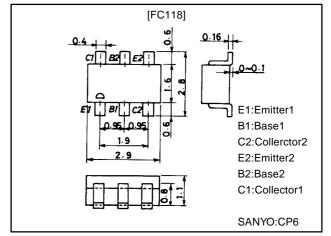
Specifications

Absolute Maximum Ratings at Ta = 25°C

Package Dimensions

unit:mm

2067



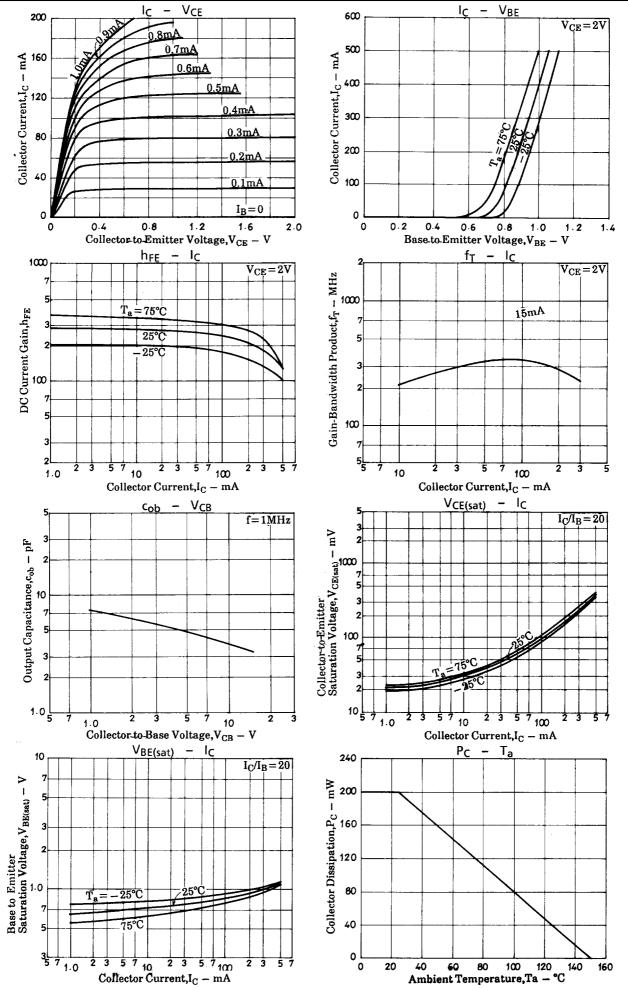
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		20	V
Collector-to-Emitter Voltage	V _{CEO}		15	V
Emitter-to-Base Voltage	V _{EBO}		5	V
Collector Current	IC		500	mA
Collector Current (Pulse)	ICP		1	Α
Base Current	I _B		100	mA
Collector Dissipation	PC	1 unit	200	mW
Total Power Dissipation	PT		300	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to+150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	I _{CBO}	V _{CB} =15V, I _E =0			0.1	μA
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0			0.1	μA
DC Current Gain	h _{FE} (1)	V _{CE} =2V, I _C =10mA	160		560	
	h _{FE} (2)	V _{CE} =2V, I _C =400mA	80			
DC Current Gain Ratio	h _{FE} (small/ large)	V _{CE} =2V, I _C =10mA	0.8	0.98		
Gain-Bandwidth Product	fΤ	V _{CE} =2V, I _C =50mA		300		MHz
Output Capacitance	Cob	V _{CE} =10V, f=1MHz		4		pF
C-E Saturation Voltage	V _{CE(sat)} 1	I _C =5mA. I _B =0.5mA		15	30	mV
	V _{CE(sat)} ²	I _C =200mA. I _B =10mA		160	300	mV
B-E Saturation Voltage	V _{BE(sat)}	I _C =200mA. I _B =10mA		0.95	1.2	V
C-B Breakdown Voltage	V(BR)CBO	I _C =10μA, I _E =0	20			V
C-E Breakdown Voltage	V _(BR) CEO	I _C =1mA, R _{BE} =∞	15			V
E-B Breakdown Voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	5			V

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

Marking:110



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