Ordering number : ENA1474

SANYO Semiconductors

DATA SHEET

PNP Epitaxial Planar Silicon Transistor

CPH6074 — For VHF frequency conversion, local oscillation

Features

- High cut-off frequency (f_T=1.2GHz typ).
- Low Cob (Cob=1.2pF typ).
- The two chips contained are equivalent to the 2SA1778.
- Composite type with 2 devices contained in one package, facilitating high-density mounting.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CBO}		-15	V
Collector-to-Emitter Voltage	V_{CEO}		-15	V
Emitter-to-Base Voltage	V_{EBO}		-3	V
Collector Current	I_C		-50	mA
Collector Dissipation	P_C	When mounted on glass epoxy substrate 1unit	300	mW
Total Power Dissipation	P_T	When mounted on glass epoxy substrate	500	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	
Collector Cutoff Current	I_{CBO}	V_{CB}= -15V, I_E=0A			-0.1	μA
Emitter Cutoff Current	I_{EBO}	V_{EB}= -2V, I_C=0A			-0.1	μA
DC Current Gain	h_{FE}	V_{CE}= -10V, I_C= -5mA	60		120	
Gain-Bandwidth Product	f_T	V_{CE}= -10V, I_C= -5mA	0.6	1.2		GHz
Output Capacitance	Cob	V_{CB}= -10V, f=1MHz		1.2	1.7	pF
Reverse Transfer Capacitance	Cre	V_{CB}= -10V, f=1MHz		0.9		pF

Marking : GQ

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

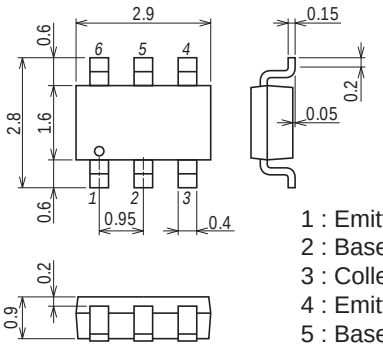
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Package Dimensions

unit : mm (typ)

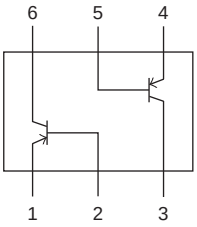
7018A-006



1 : Emitter1
2 : Base1
3 : Collector2
4 : Emitter2
5 : Base2
6 : Collector1

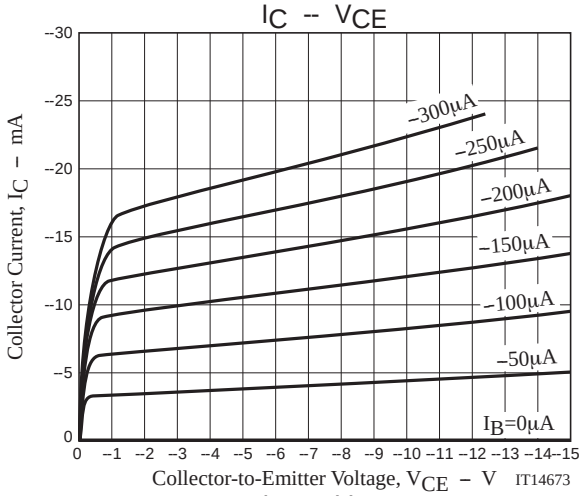
SANYO : CPH6

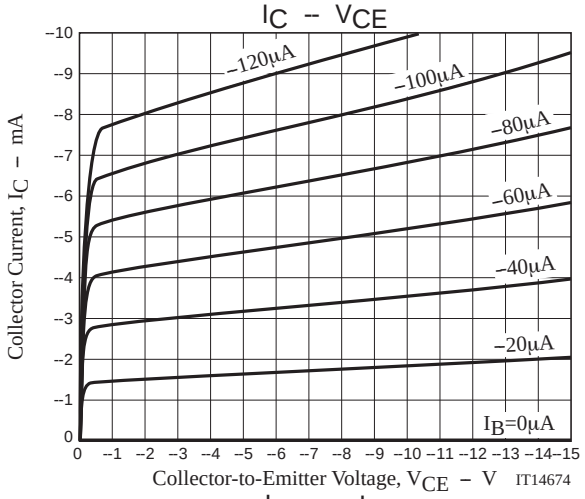
Electrical Connection

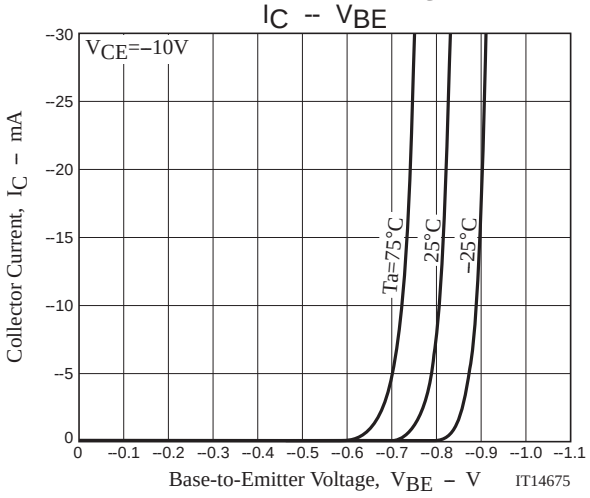


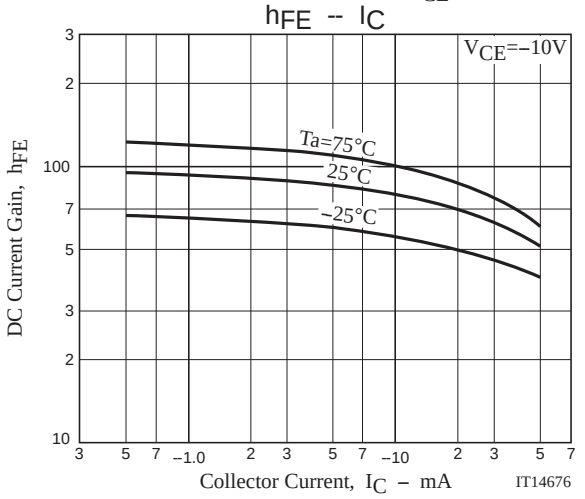
1 : Emitter1
2 : Base1
3 : Collector2
4 : Emitter2
5 : Base2
6 : Collector1

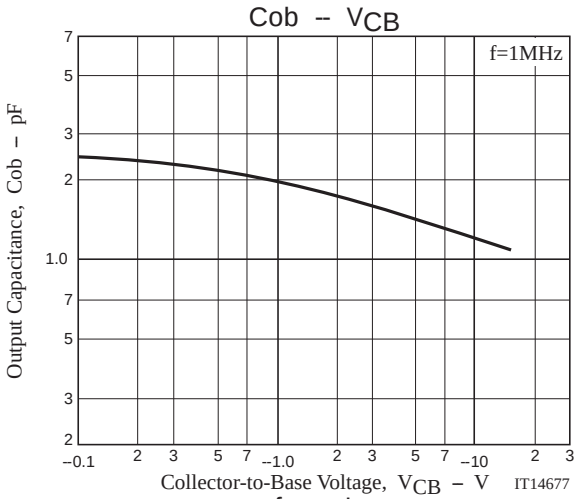
Top view

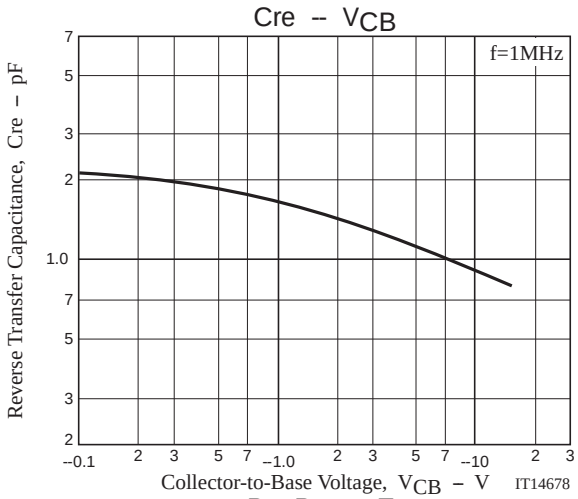


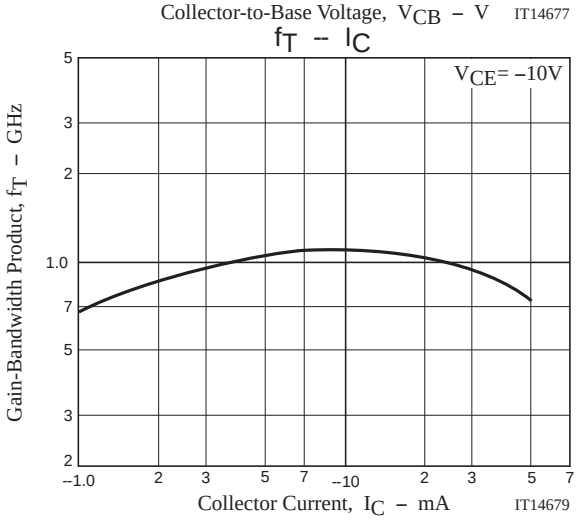


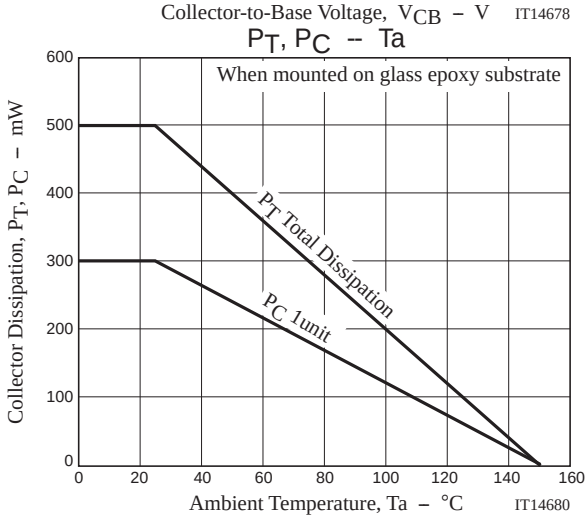












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