

PNP Epitaxial Planar Silicon Transistor

CPH6074 — For VHF frequency conversion, local oscillation

Features

- High cut-off frequency ($f_T=1.2\text{GHz}$ 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 $T_a=25^\circ\text{C}$

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	T_J		150	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +150	$^\circ\text{C}$

Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB} = -15\text{V}, I_E = 0\text{A}$			-0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -2\text{V}, I_C = 0\text{A}$			-0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = -10\text{V}, I_C = -5\text{mA}$	60		120	
Gain-Bandwidth Product	f_T	$V_{CE} = -10\text{V}, I_C = -5\text{mA}$	0.6	1.2		GHz
Output Capacitance	Cob	$V_{CB} = -10\text{V}, f = 1\text{MHz}$		1.2	1.7	pF
Reverse Transfer Capacitance	C_{re}	$V_{CB} = -10\text{V}, f = 1\text{MHz}$		0.9		pF

Marking : GQ

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

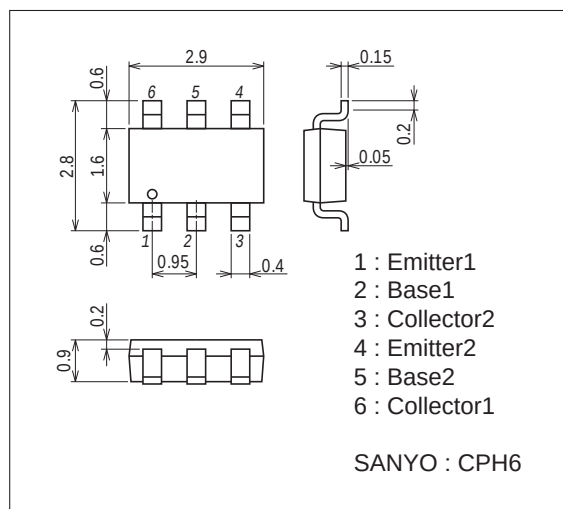
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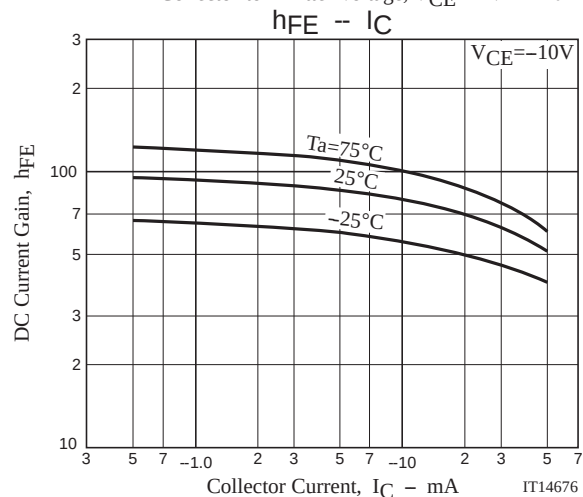
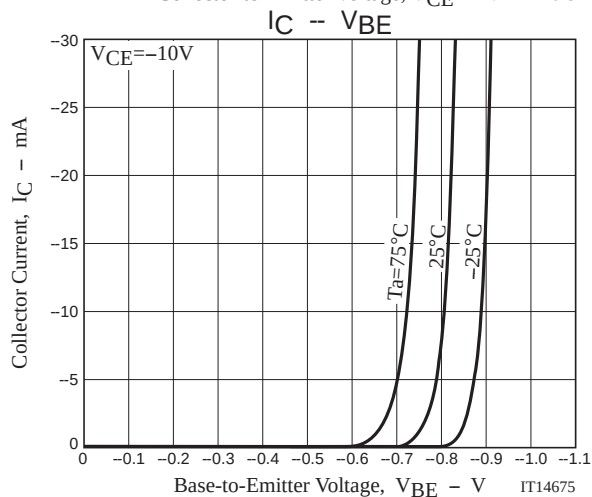
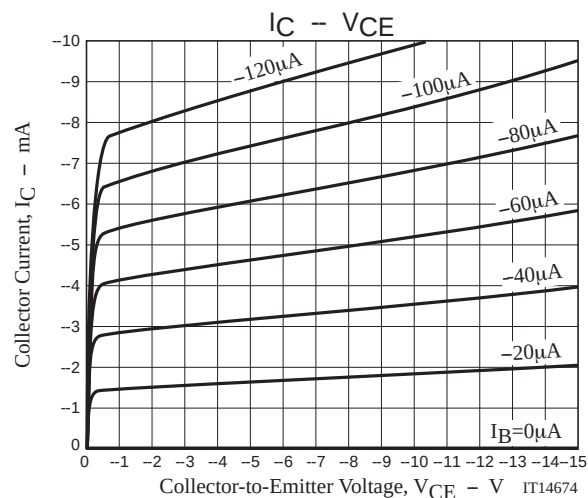
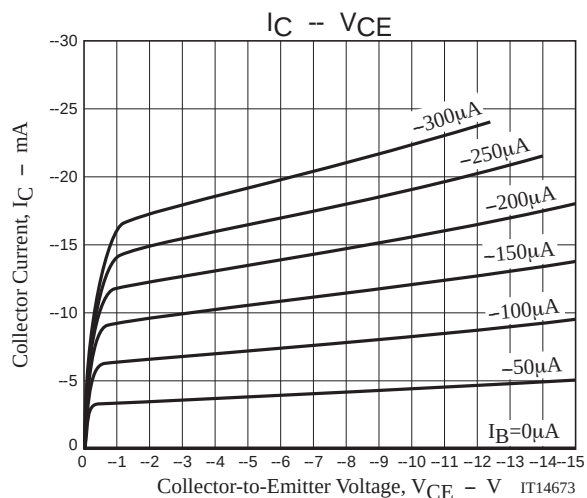
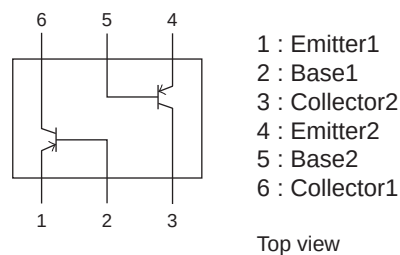
Package Dimensions

unit : mm (typ)

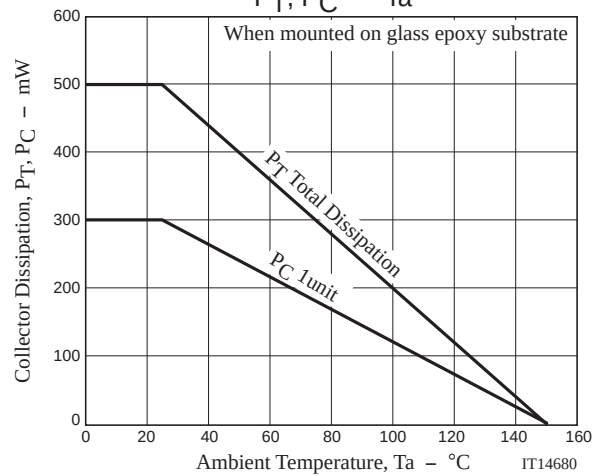
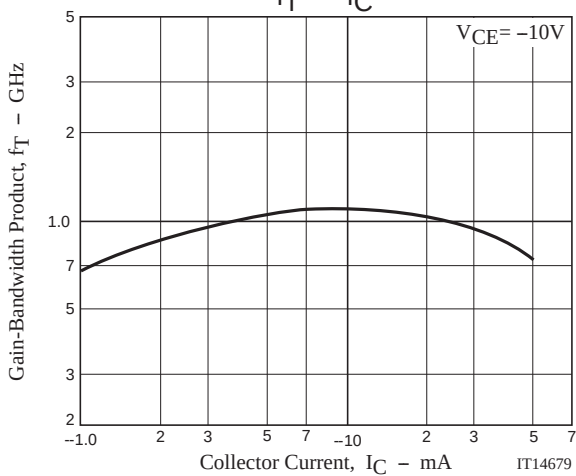
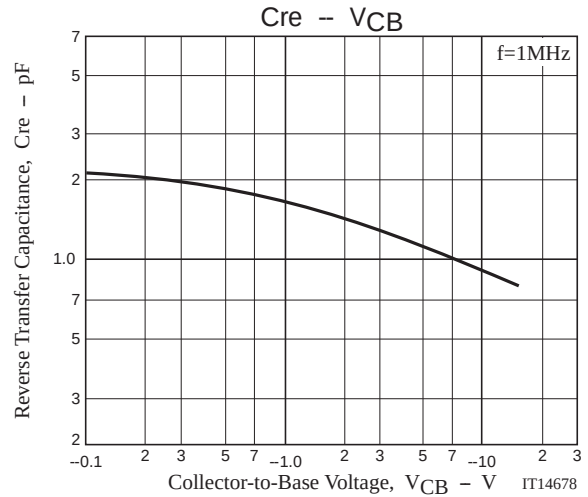
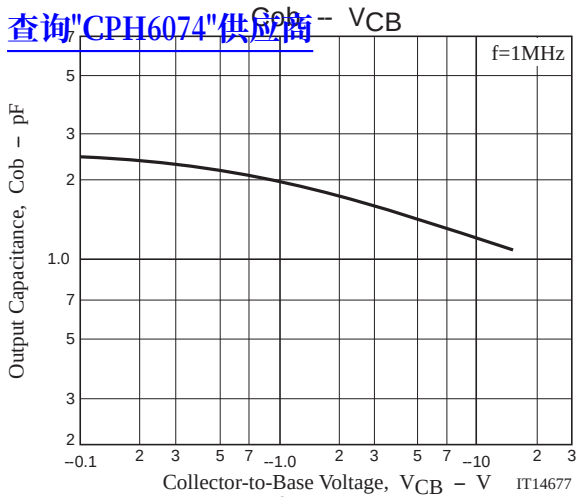
7018A-006



Electrical Connection



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