



SANYO Semiconductors

DATA SHEET

CPH6009 — PNP Epitaxial Planar Silicon Transistor

High Frequency Output Applications

High Speed Switching Applications

Features

- High f_T .
- Large current ($I_C=600\text{mA}$).
- Complementary pair with the CPH6010 (NPN).

Specifications

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CBO}		-13	V
Collector-to-Emitter Voltage	V_{CEO}		-13	V
Emitter-to-Base Voltage	V_{EBO}		-3	V
Collector Current	I_C		-600	mA
Collector Dissipation	P_C	Mounted on a ceramic board (900mm ² ×0.8mm)	1.0	W
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}	$V_{CB}=-10\text{V}, I_E=0\text{A}$			-3.0	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=-1\text{V}, I_C=0\text{A}$			-3.0	μA
DC Current Gain	h_{FE}	$V_{CE}=-10\text{V}, I_C=-300\text{mA}$	15		60	
Gain-Bandwidth Product	f_T	$V_{CE}=-5\text{V}, I_C=-100\text{mA}$		3		GHz
Output Capacitance	C_{ob}	$V_{CB}=-10\text{V}, f=1\text{MHz}$		8.0	10.0	pF
Reverse Transfer Capacitance	C_{re}	$V_{CB}=-10\text{V}, f=1\text{MHz}$		7.3		pF
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-300\text{mA}, I_E=-30\text{mA}$		-0.55	-1.1	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=-100\mu\text{A}, I_E=0\text{A}$	-13			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-1\text{mA}, R_{BE}=\infty$	-13			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=-100\mu\text{A}, I_C=0\text{A}$	-3			V

Marking : GL

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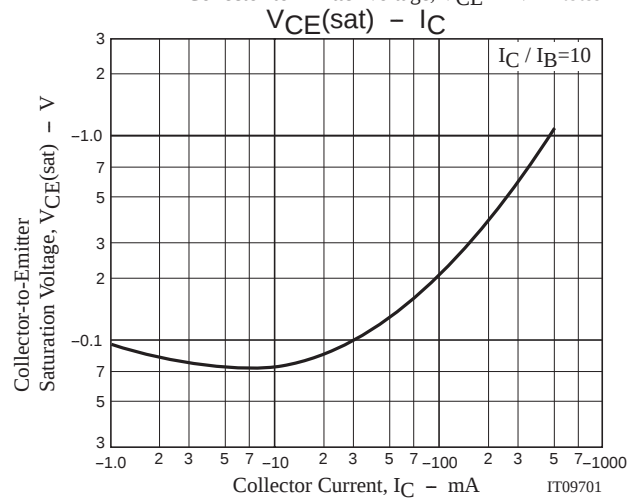
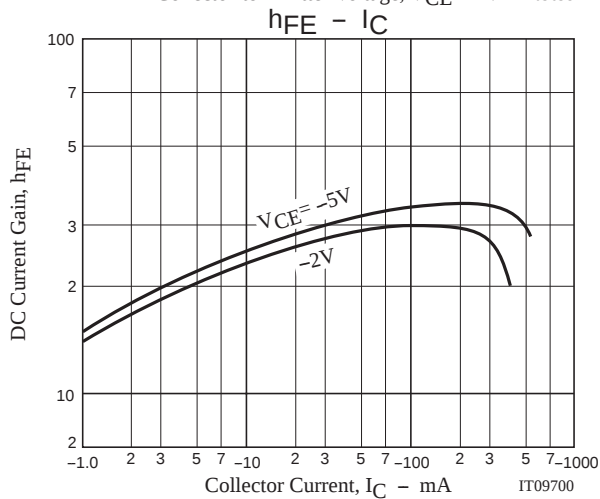
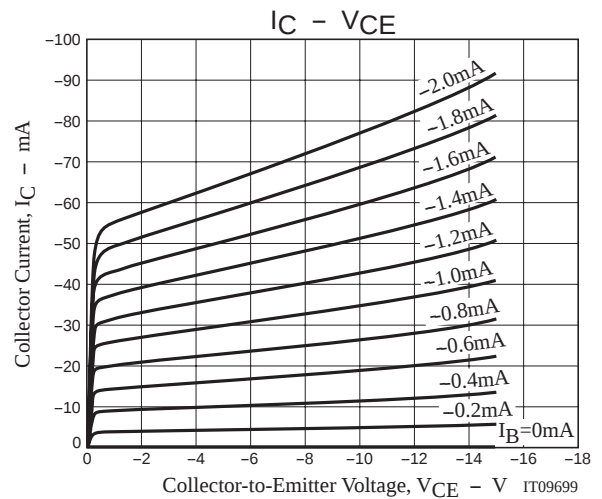
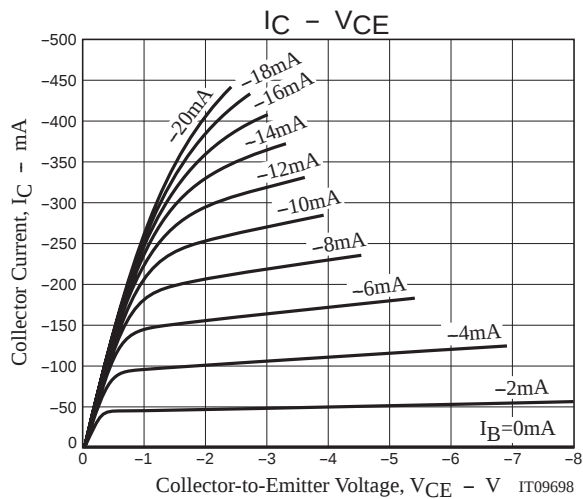
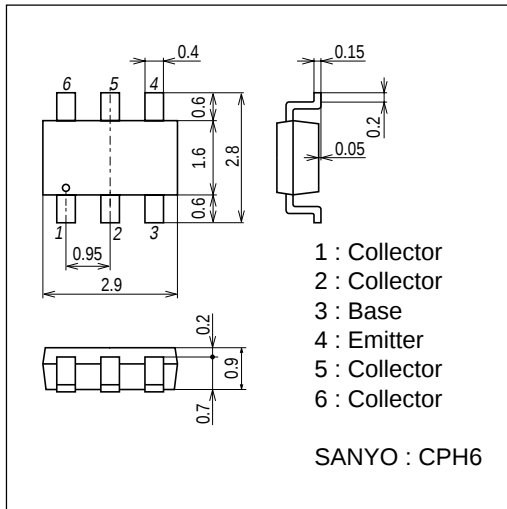
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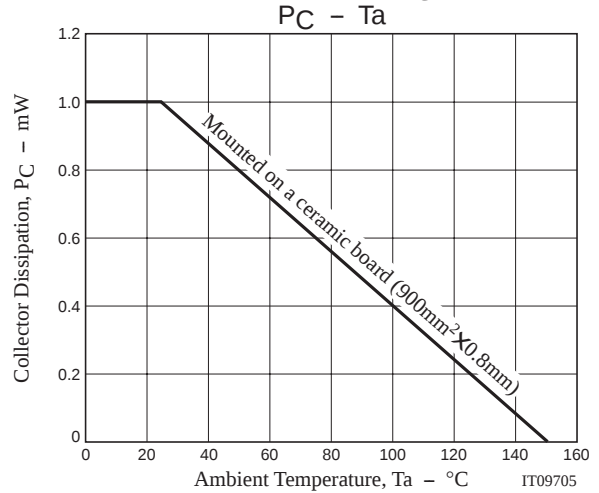
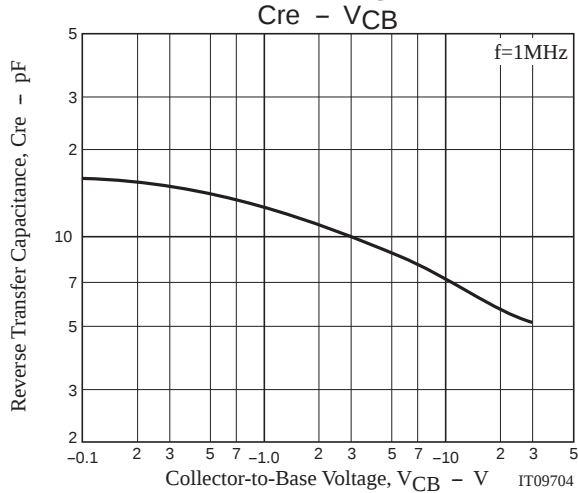
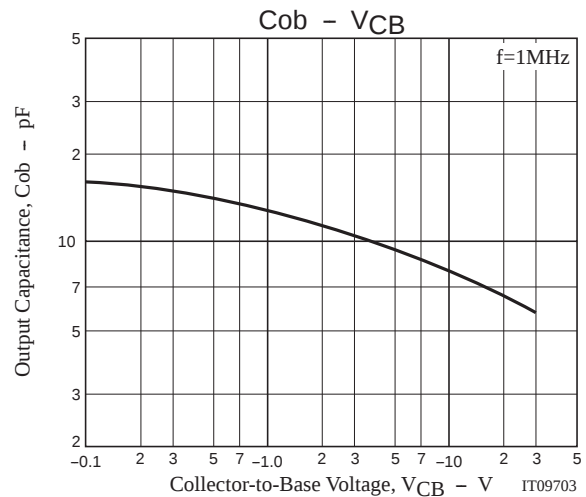
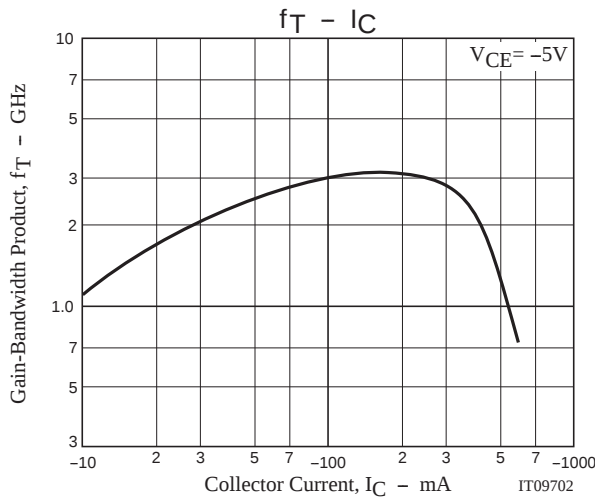
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Package Dimensions

unit : mm
7018-002





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