



CPH6530 — PNP / NPN Epitaxial Planar Silicon Transistor

Low-Frequency General-Purpose Applications

Applications

- Muting circuit, relay drivers, lamp drivers, motor drivers.

Features

- Composite type with a PNP / NPN transistor contained in one package, facilitating high-density mounting.
- Ultrasmall package permitting applied sets to be small and slim.

Specifications () : PNP

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CB0}		(-15)60	V
Collector-to-Emitter Voltage	V _{CEO}		(-12)50	V
Emitter-to-Base Voltage	V _{EBO}		(-)5	V
Collector Current	I _C		(-1)0.5	A
Collector Current (Pulse)	I _{CP}		(-2)1	A
Collector Dissipation	P _C	Mounted on a ceramic board (600mm ² X0.8m) 1unit	0.6	W
Junction Temperature	T _J		150	°C
Storage Temperature	T _{stg}		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I _{CB0}	V _{CB} =(-12)40V, I _E =0A			(-)100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0A			(-)100	nA
DC Current Gain	h _{FE}	V _{CE} =(-)2V, I _C =(-)10mA	300		(700)800	
Gain-Bandwidth Product	f _T	V _{CE} =(-2)10V, I _C =(-)50mA		(450)500		MHz
Output Capacitance	C _{ob}	V _{CB} =(-)10V, f=1MHz		(6)2.8		pF
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-400)100mA, I _B =(-20)10mA		(-120)50	(-240)100	mV
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-400)100mA, I _B =(-20)10mA		(-)0.9	(-)1.2	V
Collector-to-Base Breakdown Voltage	V _{(BR)CBO}	I _C =(-)10μA, I _E =0A	(-15)60			V
Collector-to-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =(-)1mA, R _{BE} =∞	(-12)50			V
Emitter-to-Base Breakdown Voltage	V _{(BR)EBO}	I _E =(-)10μA, I _C =0A	(-)5			V

Marking : EQ

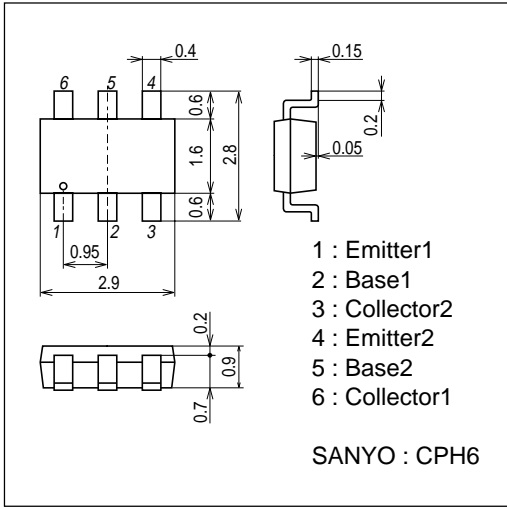
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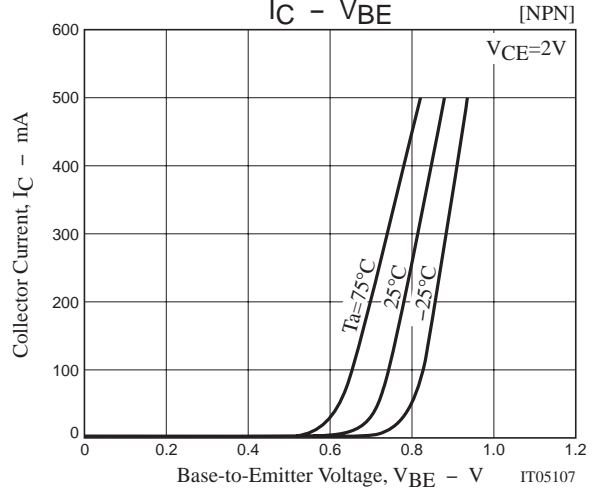
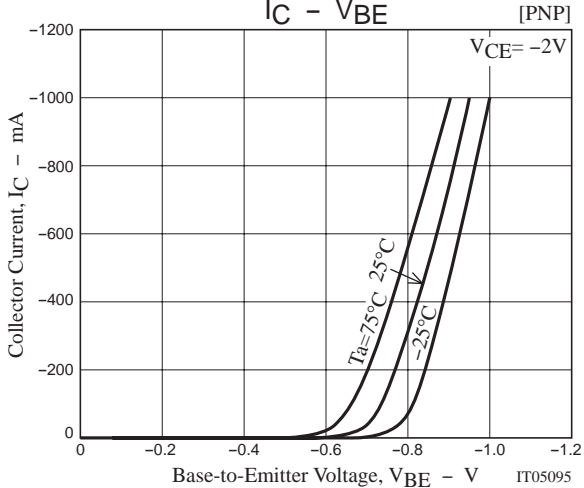
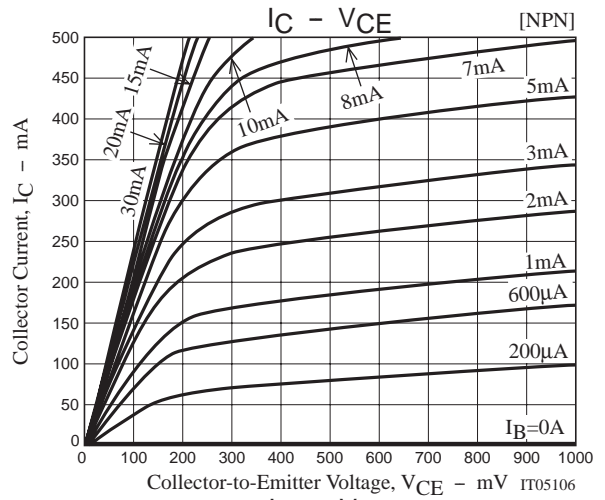
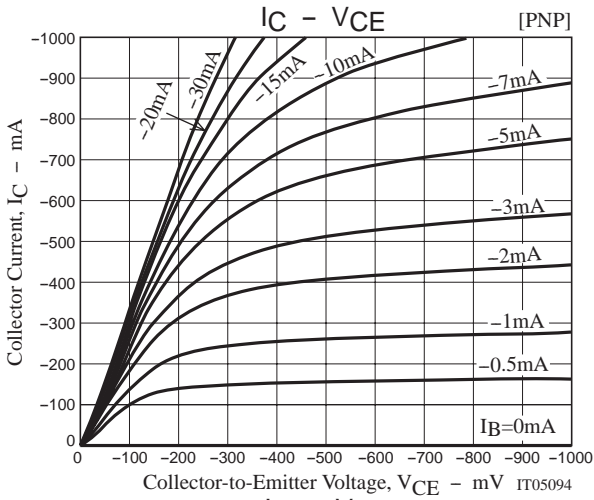
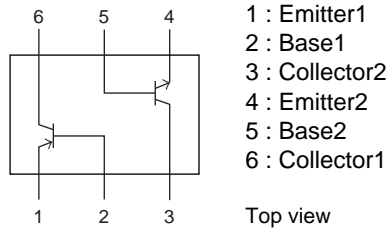
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Package Dimensions

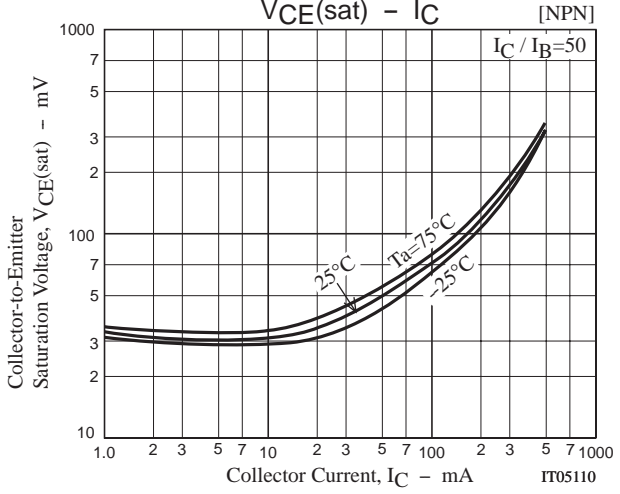
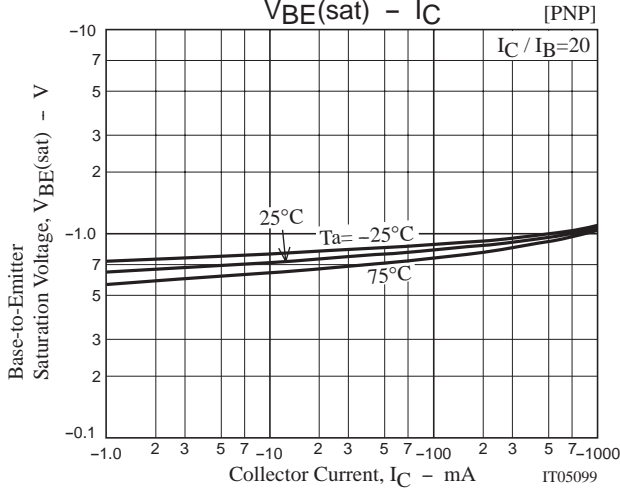
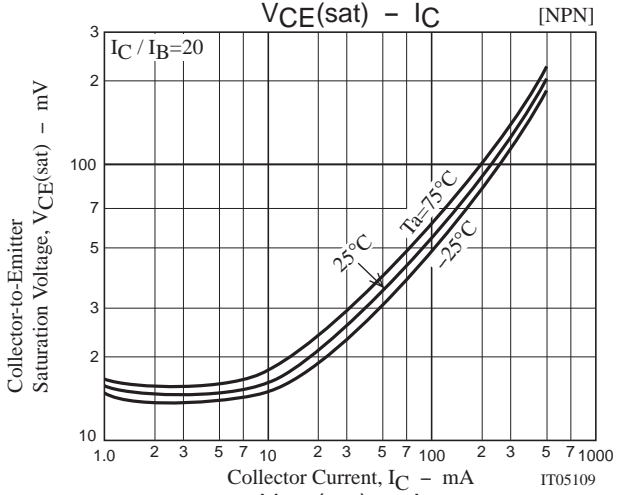
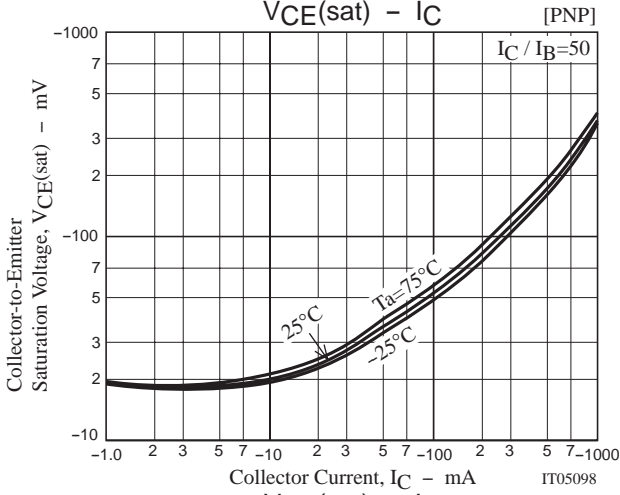
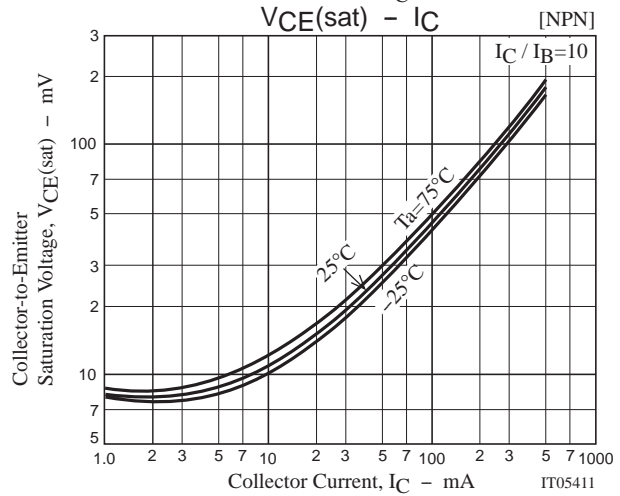
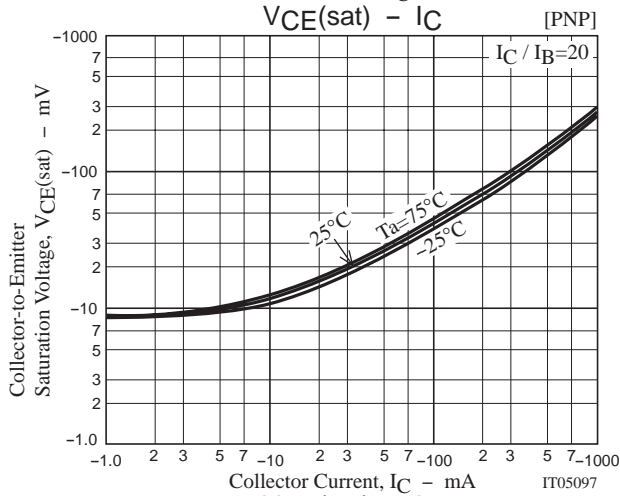
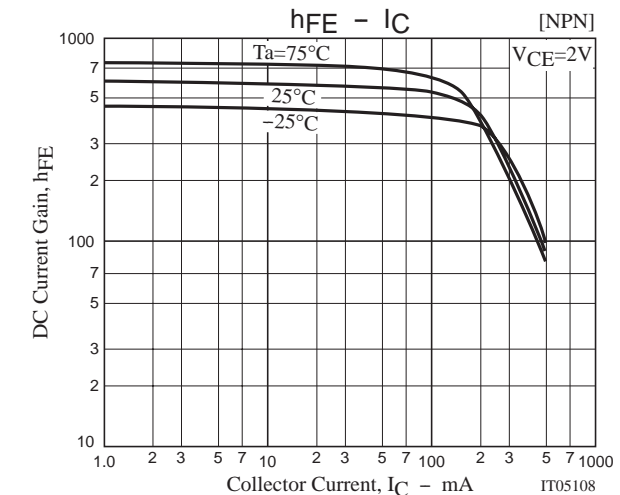
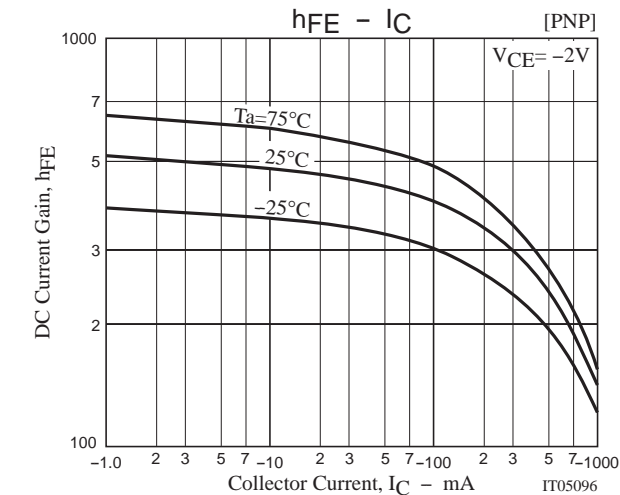
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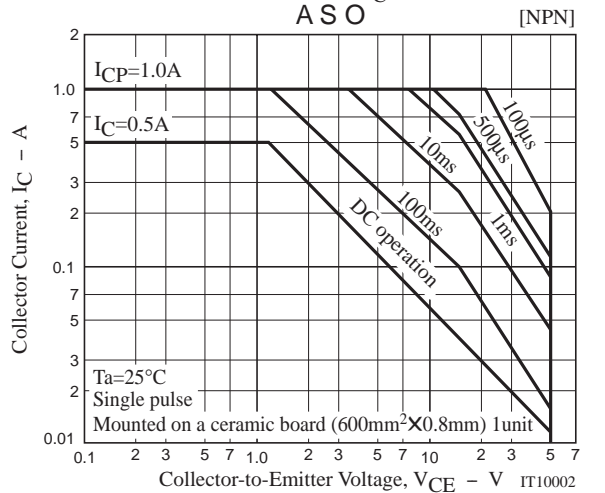
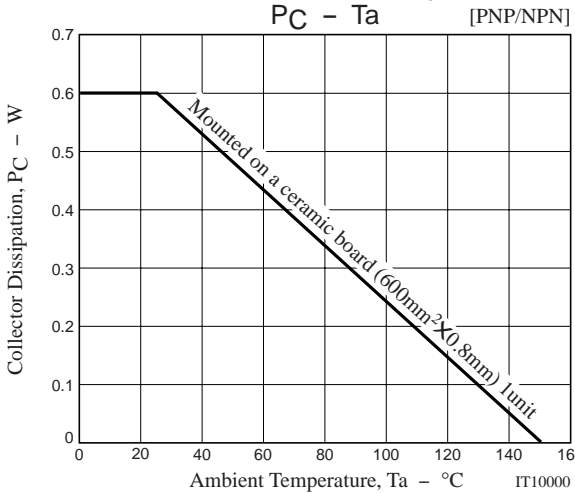
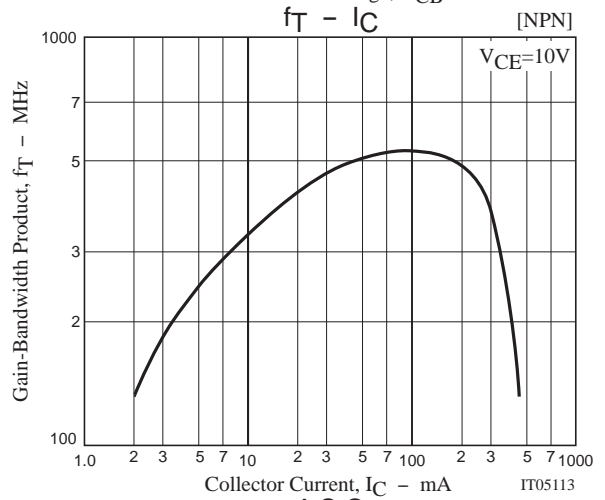
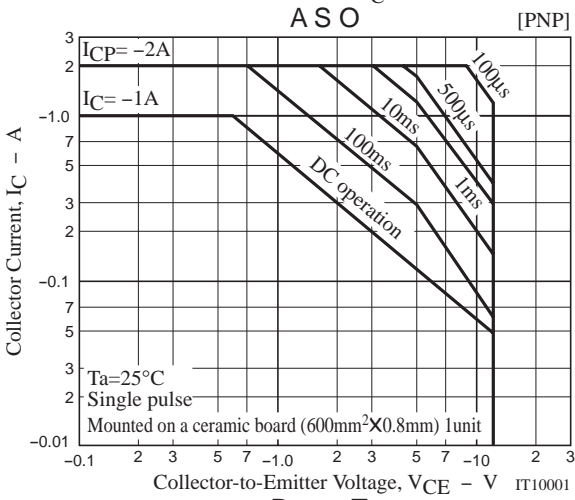
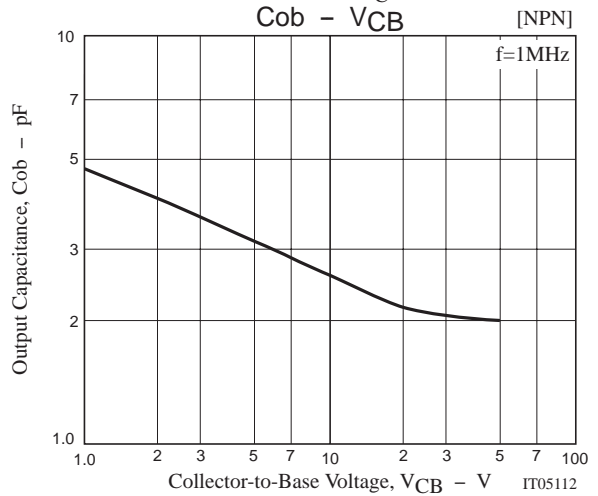
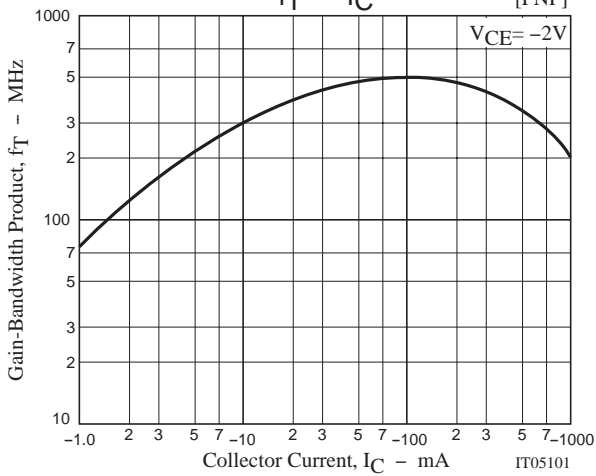
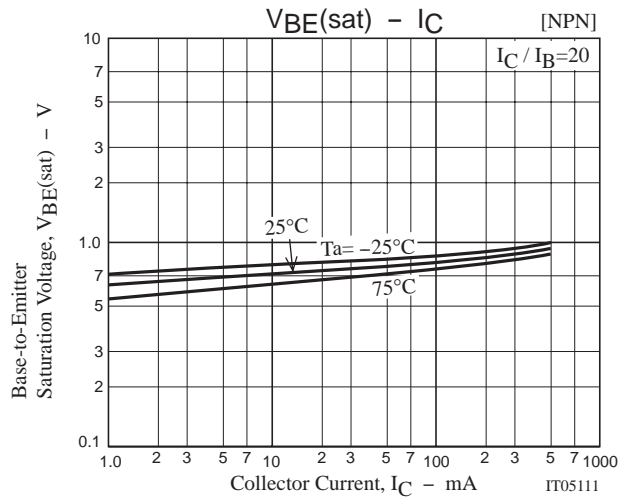
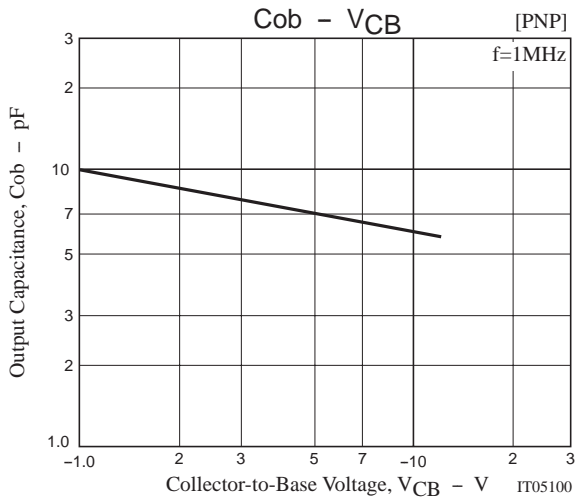
Electrical Connection



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