



SANYO Semiconductors

DATA SHEET

CPH3122 / CPH3222

— PNP / NPN Epitaxial Planar Silicon Transistors
DC / DC Converter Applications

Applications

- Relay drivers, lamp drivers, motor drivers, flash.

Features

- Adoption of MBIT processes.
- High current capacitance.
- Low collector-to-emitter saturation voltage.
- High-speed switching.
- Ultrasmall package facilitates miniaturization in end products (mounting height : 0.9mm).
- High allowable power dissipation.

Specifications () : CPH3122

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CB0}		(-30)40	V
Collector-to-Emitter Voltage	V _{CEO}		(-30)	V
Emitter-to-Base Voltage	V _{EBO}		(-5)	V
Collector Current	I _C		(-3)	A
Collector Current (Pulse)	I _{CP}		(-5)	A
Base Current	I _B		(-600)	mA
Collector Dissipation	P _C	Mounted on a ceramic board (600mm ² X0.8mm)	0.9	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} =(-)30V, I _E =0			(-)0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0			(-)0.1	μA
DC Current Gain	h _{FE}	V _{CE} =(-)2V, I _C =(-)500mA	200		560	
Gain-Bandwidth Product	f _T	V _{CE} =(-)10V, I _C =(-)500mA		(400)420		MHz
Output Capacitance	C _{ob}	V _{CB} =(-)10V, f=1MHz		(25)20		pF

Marking : CPH3122 : AT, CPH3222 : CT

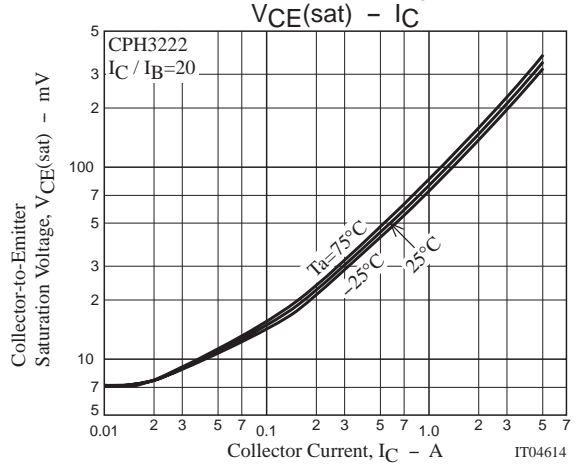
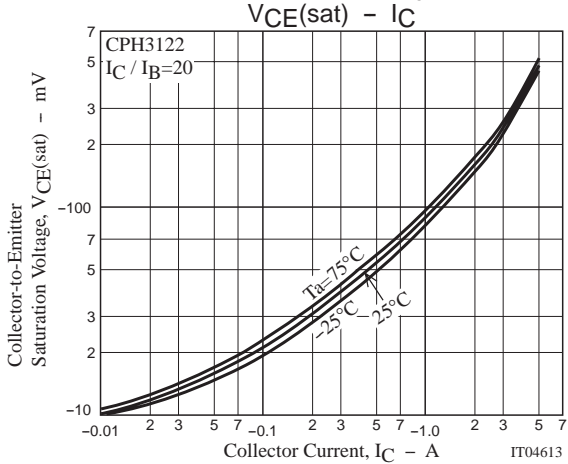
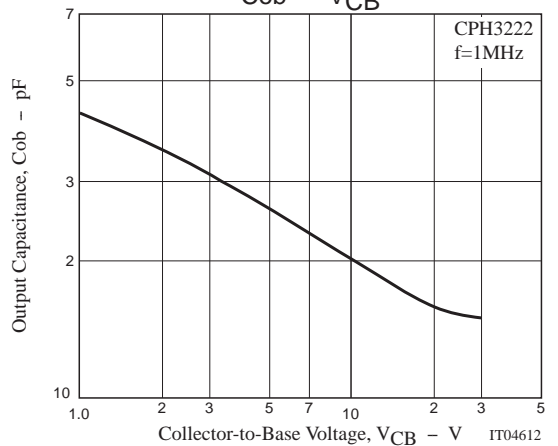
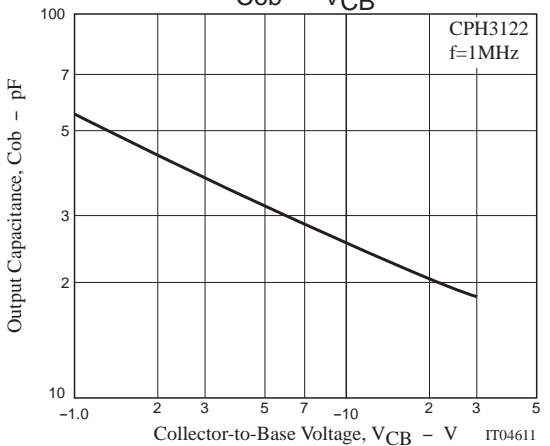
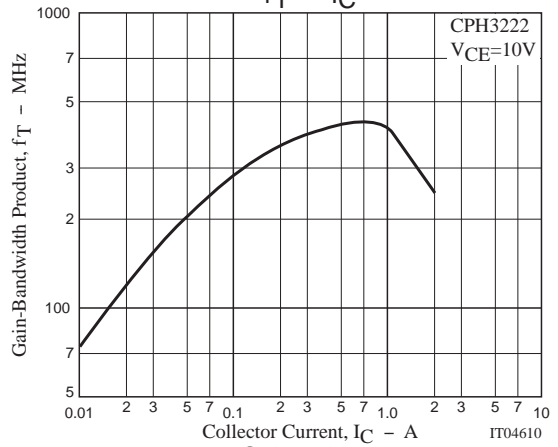
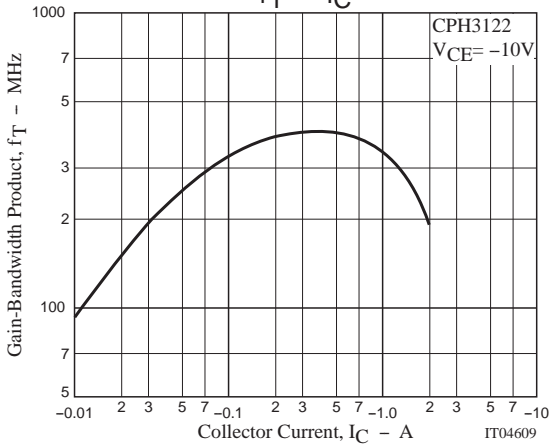
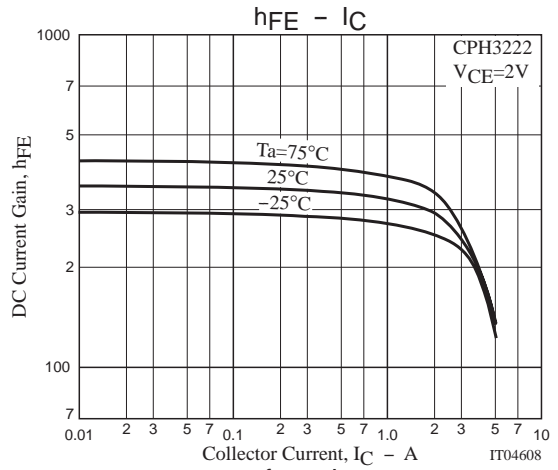
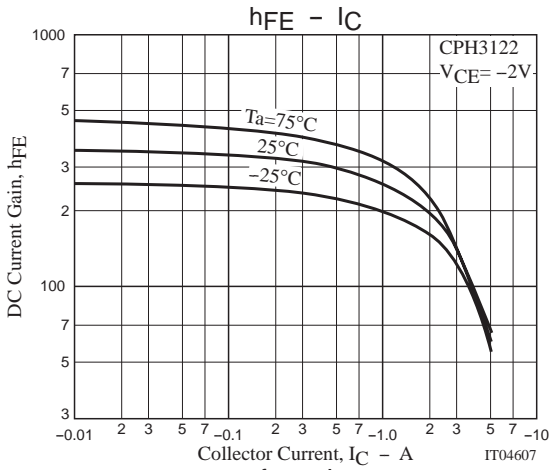
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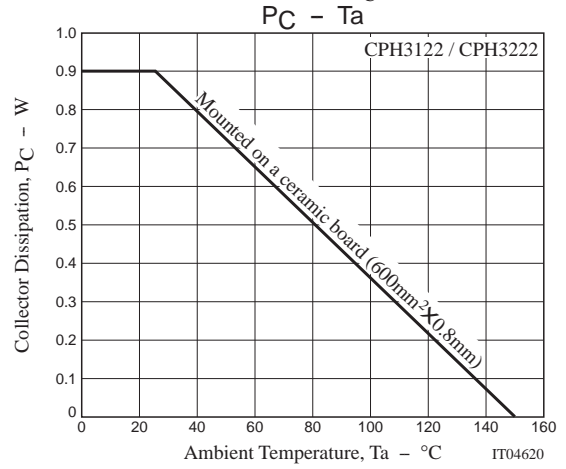
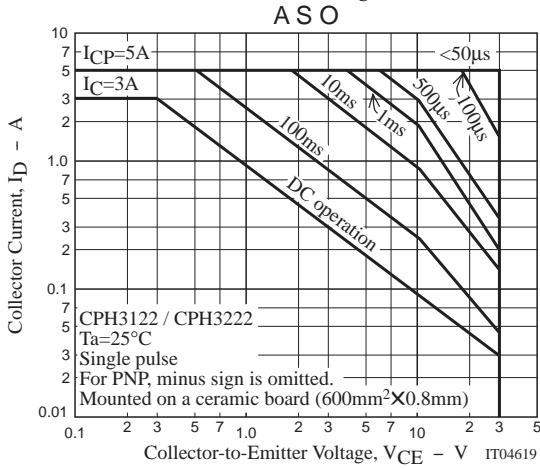
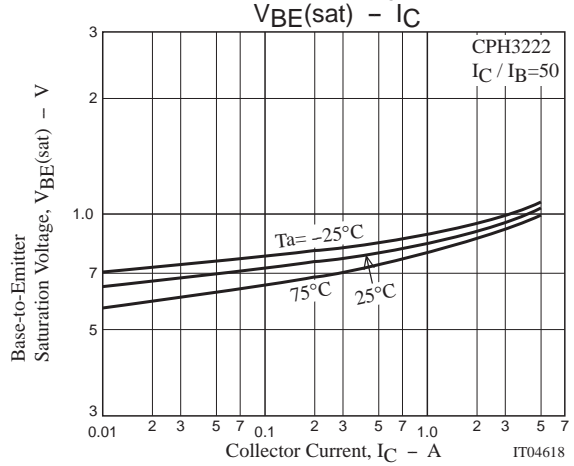
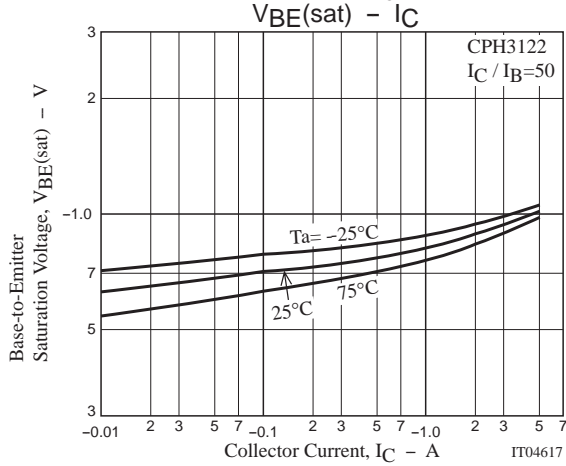
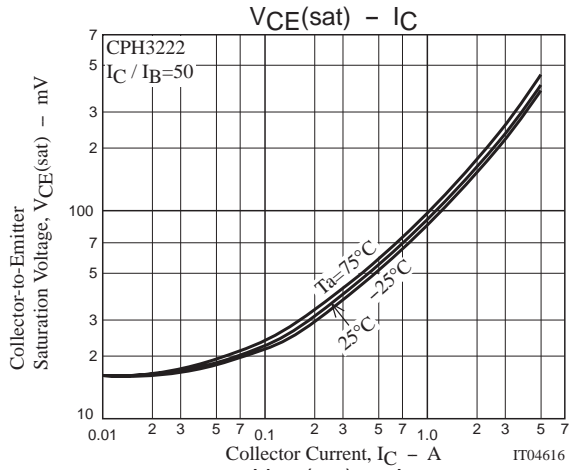
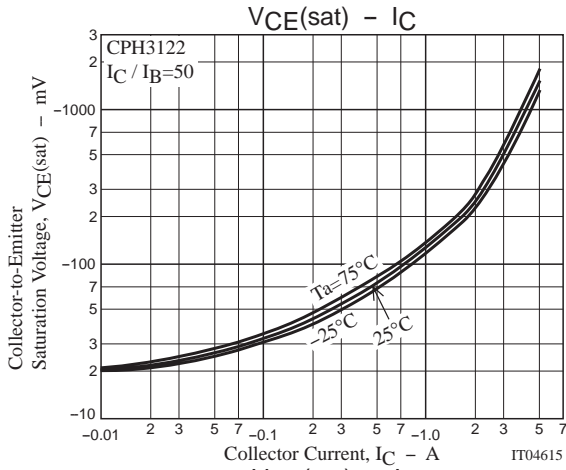
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N1504 TS IM TB-00000300 / 41002 TS IM TA-100028,100030 No.7220-1/5



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