



SANYO Semiconductors

DATA SHEET

FP210

— PNP Epitaxial Planar Silicon Transistor

Driver Applications

Features

- Composite type with 2 transistors (PNP) contained in one package, facilitating high-density mounting.
- The FP210 is formed with 2 chips being equivalent to the 2SB1123, placed in one package.

Specifications**Absolute Maximum Ratings** at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		-60	V
Collector-to-Emitter Voltage	V _{CEO}		-50	V
Emitter-to-Base Voltage	V _{EBO}		-6	V
Collector Current	I _C		-2	A
Collector Current (Pulse)	I _{CP}		-4	A
Base Current	I _B		-400	mA
Collector Dissipation	P _C	Mounted on a ceramic board (250mm ² ×0.8mm) 1unit	0.8	W
Total Dissipation	P _T	Mounted on a ceramic board (250mm ² ×0.8mm)	1.1	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 _{CBO}	V _{CB} =-50V, 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 =-100mA	140		400	
Gain-Bandwidth Product	f _T	V _{CE} =-10V, I _C =-50mA		150		MHz
Output Capacitance	C _{ob}	V _{CB} =-10V, f=1MHz		22		pF
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =-1A, I _B =-50mA		-0.3	-0.7	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =-1A, I _B =-50mA		-0.9	-1.2	V
Collector-to-Base Breakdown Voltage	V _{(BR)CBO}	I _C =-10μA, I _E =0A	-60			V
Collector-to-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =-1mA, R _{BE} =∞	-50			V
Emitter-to-Base Breakdown Voltage	V _{(BR)EBO}	I _E =-10μA, I _C =0A	-6			V
Turn-ON Time	t _{on}	See specified Test Circuit.		60		ns
Storage Time	t _{stg}	See specified Test Circuit.		450		ns
Fall Time	t _f	See specified Test Circuit.		30		ns

Marking : 210

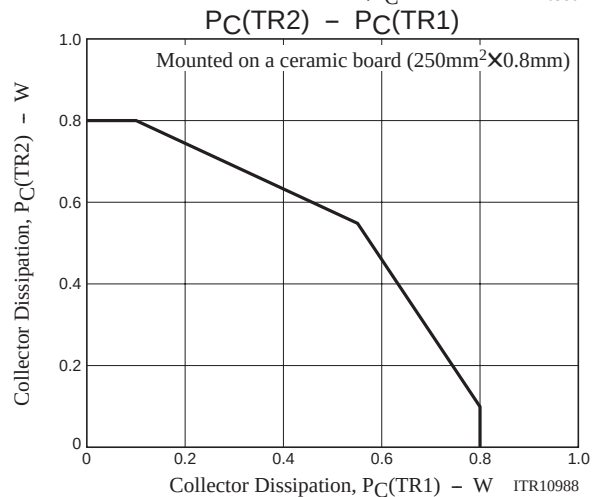
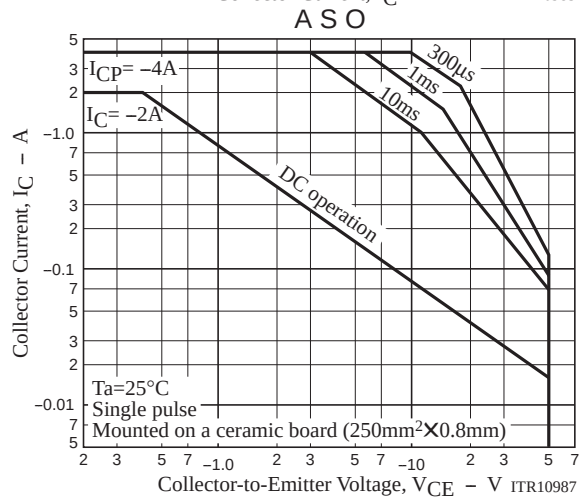
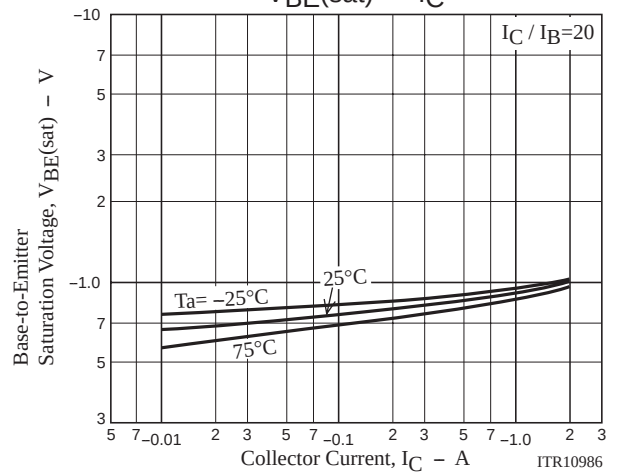
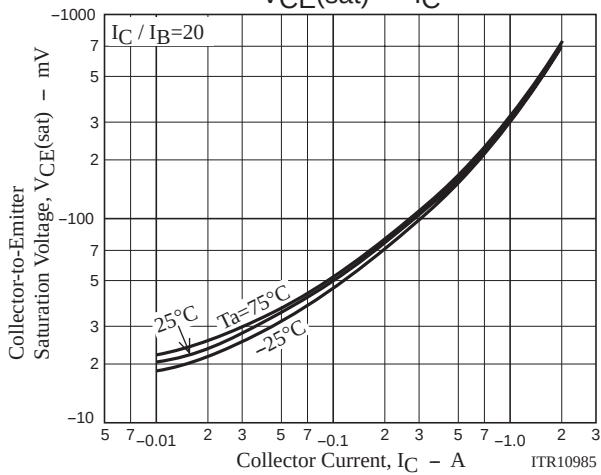
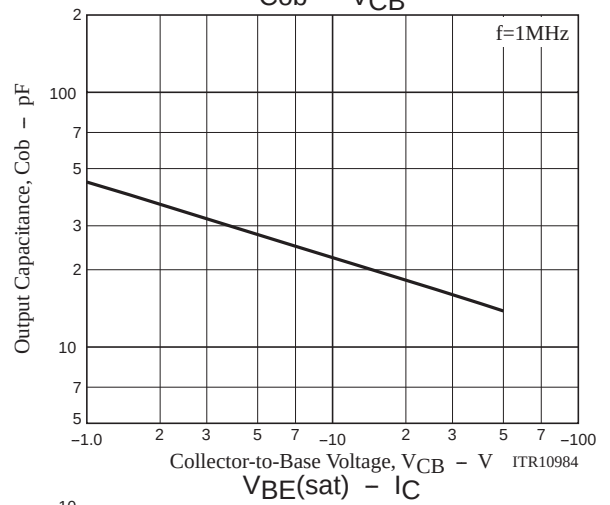
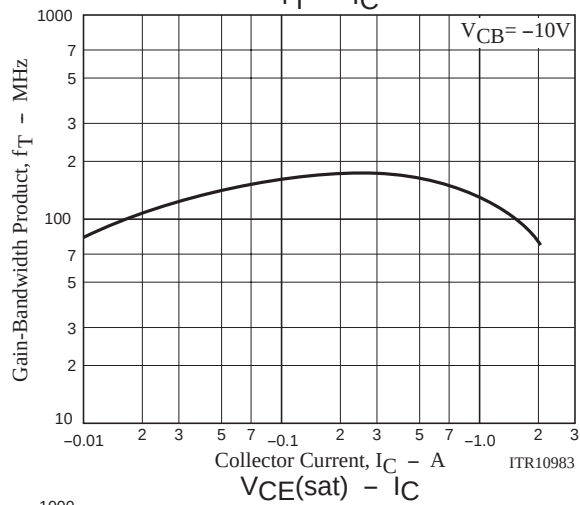
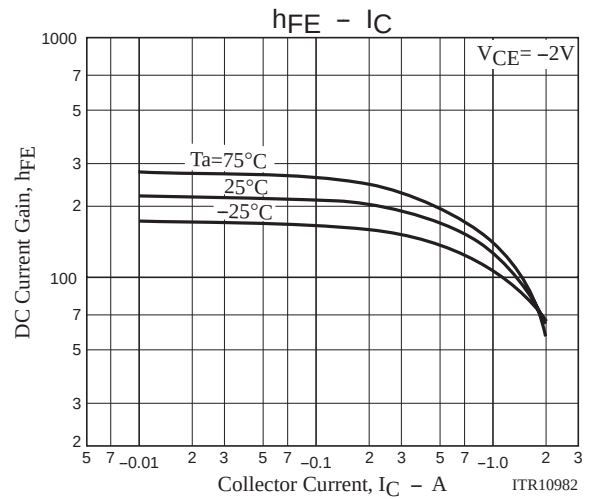
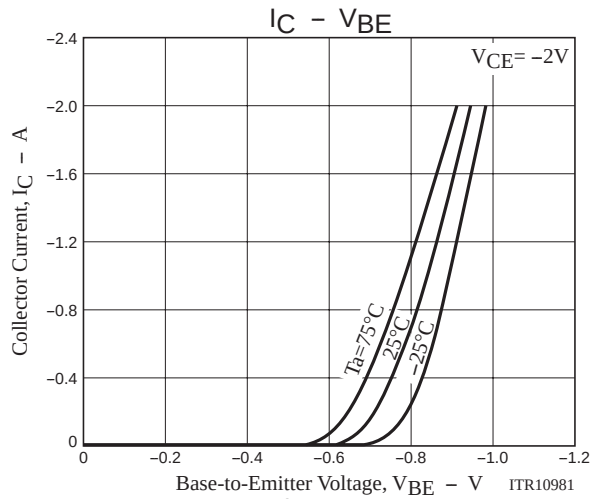
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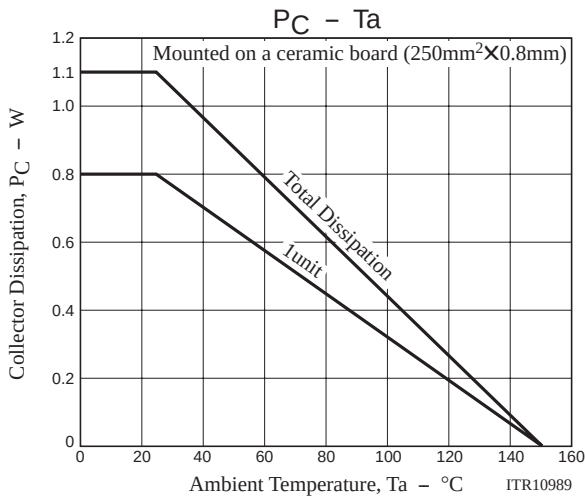
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