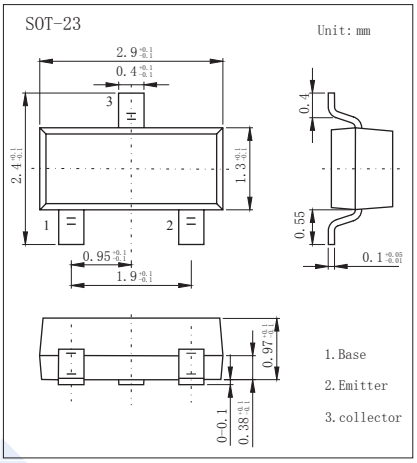
PNP Transistors

2SB710



■ Features

- Collector Current Capability I_C=-0.5A
- Collector Emitter Voltage V_{CEO}=-25V
- Complementary to 2SD602

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-30	V
Collector - Emitter Voltage	V_{CEO}	-25	
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_C	-0.5	A
Collector Current - Pulse	I_{CP}	-1	
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_J	150	℃
Storage Temperature range	T_{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	I_C= -100 μA, I_E=0	-30			V
Collector- emitter breakdown voltage	V_{CEO}	I_C= -10 mA, I_B=0	-25			
Emitter - base breakdown voltage	V_{EBO}	I_E= -100 μ A, I_C=0	-5			
Collector-base cut-off current	I_{CBO}	V_{CB}= -20 V , I_E=0			-0.1	uA
Emitter cut-off current	I_{EBO}	V_{EB}= -5V , I_C=0			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-300mA, I_B=-30mA			-0.6	V
Base - emitter saturation voltage	$V_{BE(sat)}$	I_C=-300mA, I_B=-30mA			-1.5	
DC current gain	h_{FE}	V_{CE}= -10V, I_C= -150mA	85		340	
		V_{CE}= -10V, I_C= -500mA	40			
Collector output capacitance	C_{ob}	V_{CB}= -10V,I_E=0,f=1MHz			15	pF
Transition frequency	f_T	V_{CB}= -10V,I_E=50mA,f=200MHz		200		MHz

■ Classification of $h_{fe(1)}$

Type		2SB710-Q	2SB710-R	2SB710-S
Range	85-340	85-170	120-240	170-340
Marking	C	CQ	CR	CS

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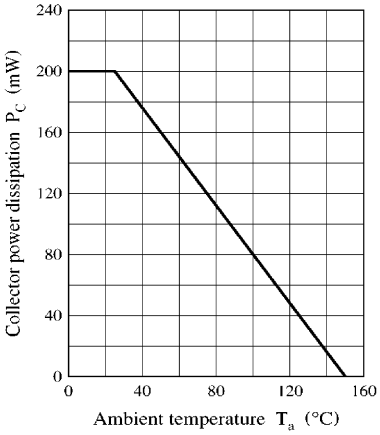
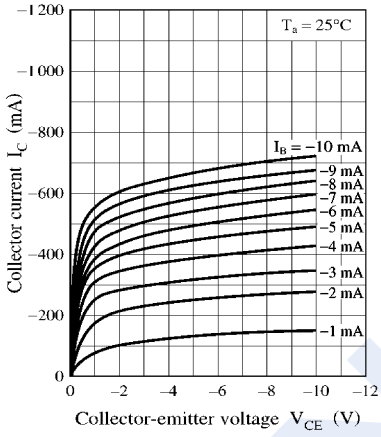
■ Typical Characterisitics

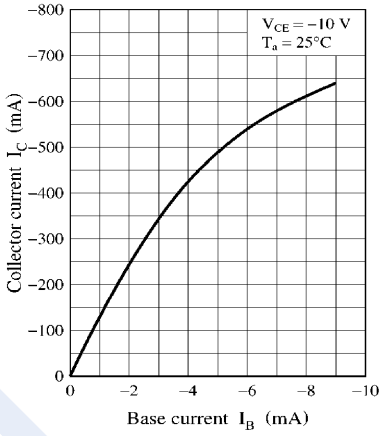
P_C — T_a



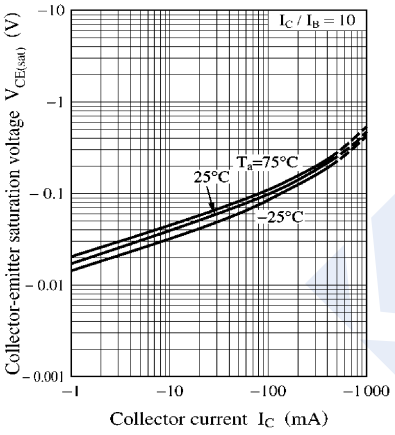
I_C — V_{CE}



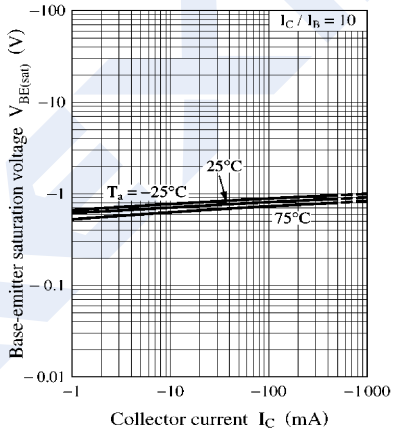
I_C — I_B



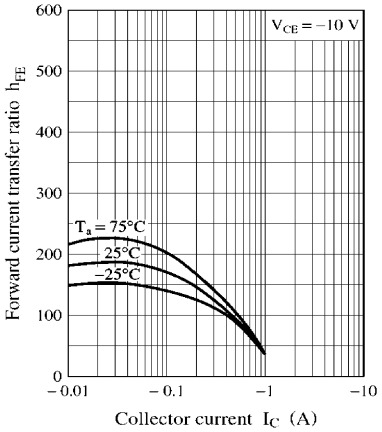
$V_{CE(sat)}$ — I_C



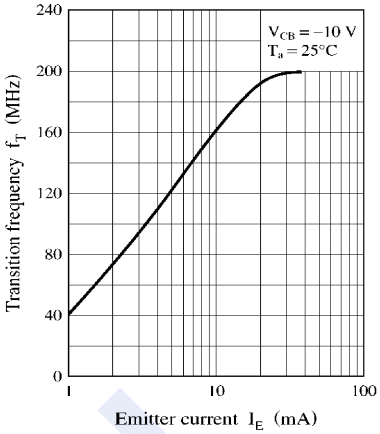
$V_{BE(sat)}$ — I_C



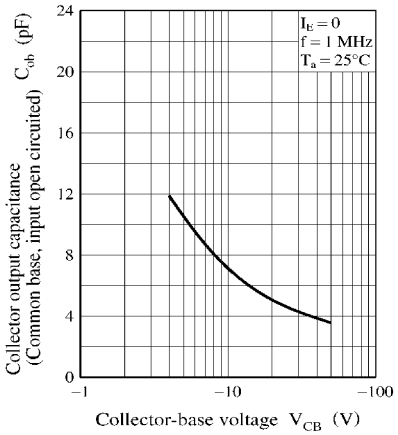
h_{FE} — I_C



f_T — I_E



C_{ob} — V_{CB}



V_{CER} — R_{BE}