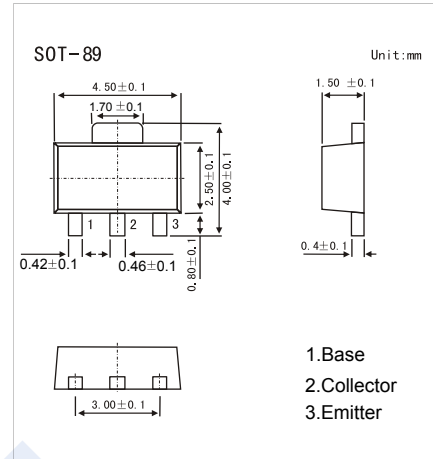


PNP Transistors

2SB1122

■ Features

- Very small size making it easy to provide high density, small-sized hybrid IC's.
- Complementary to 2SD1622



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	-60	V
Collector - Emitter Voltage	V _{CE0}	-50	
Emitter - Base Voltage	V _{EB0}	-5	
Collector Current - Continuous	I _C	-1	A
Collector current -Pulse	I _{CP}	-2	
Collector Power Dissipation (Note.1)	P _C	0.5	W
		1.3	
Junction Temperature	T _J	150	°C
Storage Temperature range	T _{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CB0}	I _C = -100 μA, I _E = 0	-60			V
Collector- emitter breakdown voltage	V _{CE0}	I _C = -1 mA, R _{BE} = ∞	-50			
Emitter - base breakdown voltage	V _{EB0}	I _E = -100 μA, I _C = 0	-5			
Collector-base cut-off current	I _{CB0}	V _{CB} = -50V, I _E = 0			-0.1	μA
Emitter cut-off current	I _{EB0}	V _{EB} = -4V, I _C = 0			-0.1	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = -500 mA, I _B = -50mA		-0.18	-0.5	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C = -500 mA, I _B = -50mA		-0.9	-1.2	
DC current gain	h _{FE}	V _{CE} = -2V, I _C = -100 mA	100		560	
		V _{CE} = -2V, I _C = -1 A	30			
Turn-ON Time	t _{on}	See specified Test Circuit.		40		ns
Storage Time	t _{stg}			300		
Fall Time	t _f			30		
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1MHz		12		pF
Transition frequency	f _T	V _{CE} = -10V, I _C = -50mA		150		MHz

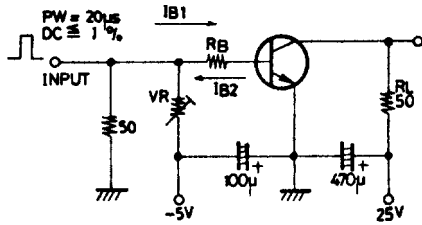
■ Classification of h_{FE}(1)

Type	2SB1122-R	2SB1122-S	2SB1122-T	2SB1122-U
Range	100-200	140-280	200-400	280-560
Marking	BE R*	BE S*	BE T*	BE U*

PNP Transistors

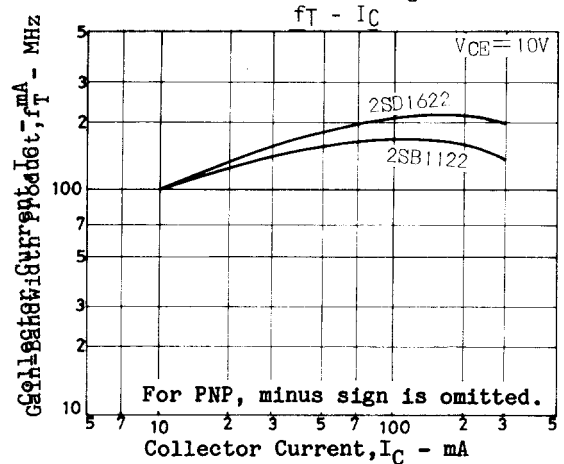
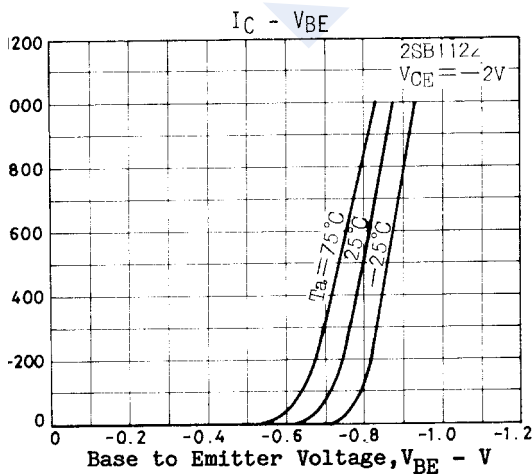
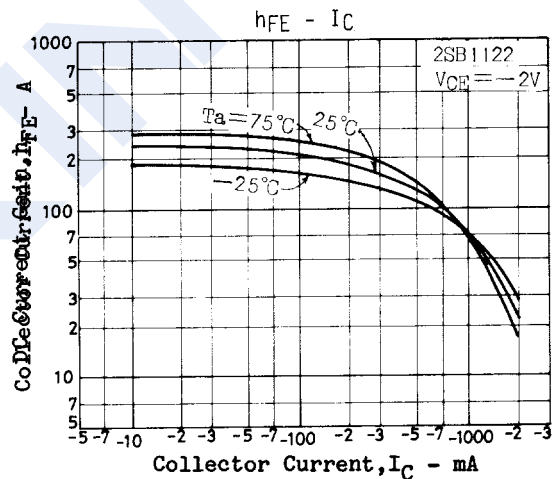
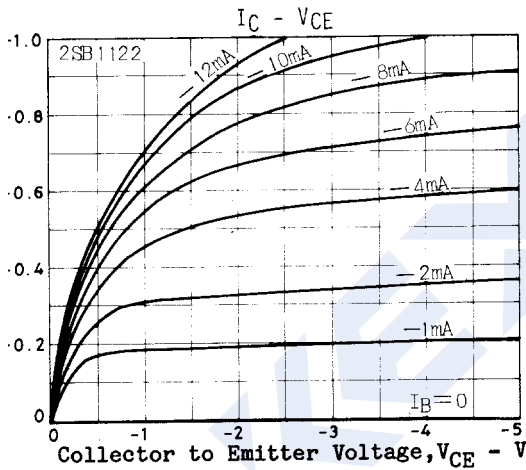
2SB1122

Switching Time Test Circuit



$I_C = 10 I_{B1} = -10 I_{B2} = 500 \text{ mA}$
 (For PNP, the polarity is reversed.)
 Unit (resistance : Ω , capacitance : F)

Typical Characteristics



PNP Transistors

2SB1122

■ Typical Characteristics

