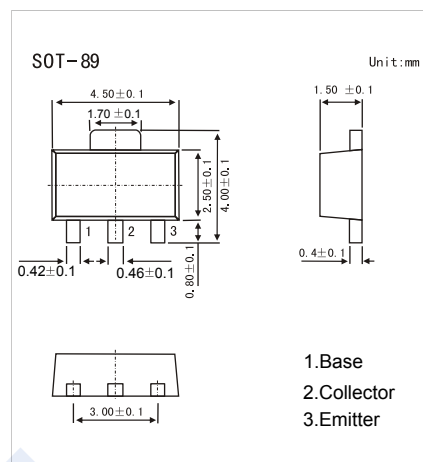


PNP Transistors

2SB1122

■ Features

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

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

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	$^\circ\text{C}$
Storage Temperature range	T_{stg}	-55 to 150	

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CB0}	$I_C = -100 \mu\text{A}$, $I_E = 0$	-60			V
Collector- emitter breakdown voltage	V_{CE0}	$I_C = -1 \text{ mA}$, $R_{BE} = \infty$	-50			
Emitter - base breakdown voltage	V_{EB0}	$I_E = -100 \mu\text{A}$, $I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -50\text{V}$, $I_E = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -4\text{V}$, $I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500 \text{ mA}$, $I_B = -50 \text{ mA}$		-0.18	-0.5	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -500 \text{ mA}$, $I_B = -50 \text{ mA}$		-0.9	-1.2	
DC current gain	h_{FE}	$V_{CE} = -2\text{V}$, $I_C = -100 \text{ mA}$	100		560	
		$V_{CE} = -2\text{V}$, $I_C = -1 \text{ A}$	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}	$V_{CB} = -10\text{V}$, $I_E = 0$, $f = 1\text{MHz}$		12		pF
Transition frequency	f_T	$V_{CE} = -10\text{V}$, $I_C = -50 \text{ mA}$		150		MHz

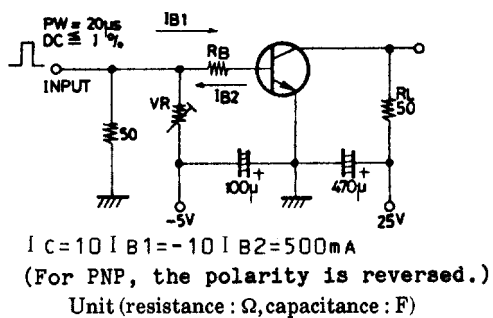
■ Classification of $h_{FE}(1)$

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*

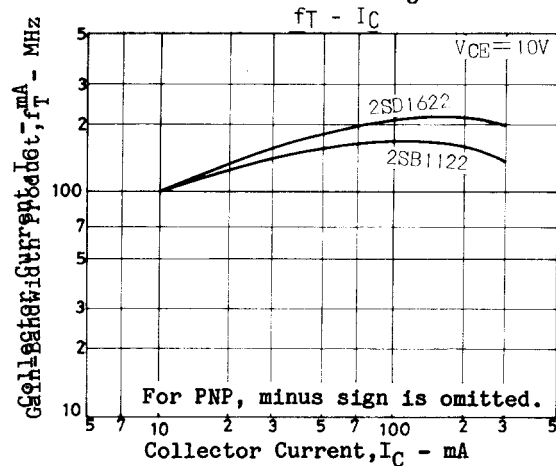
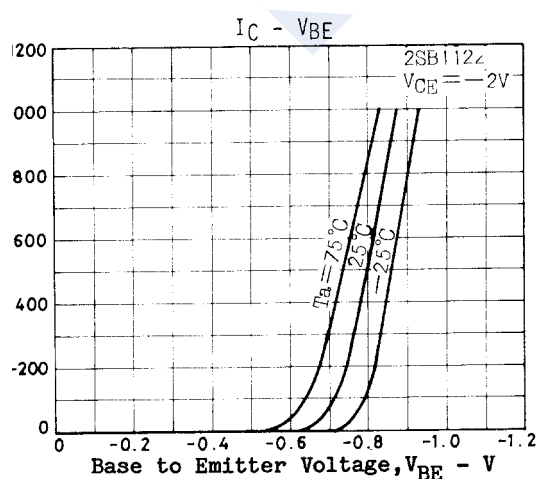
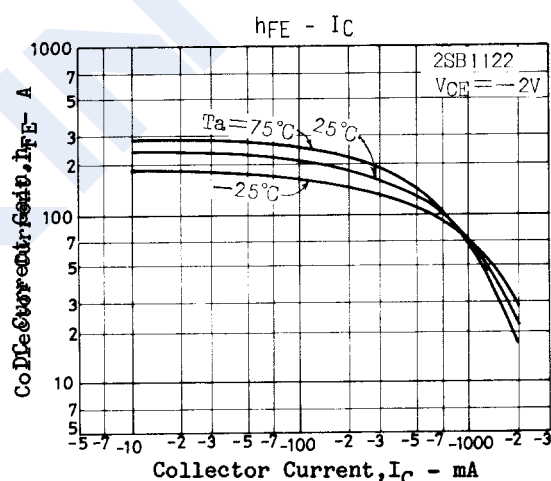
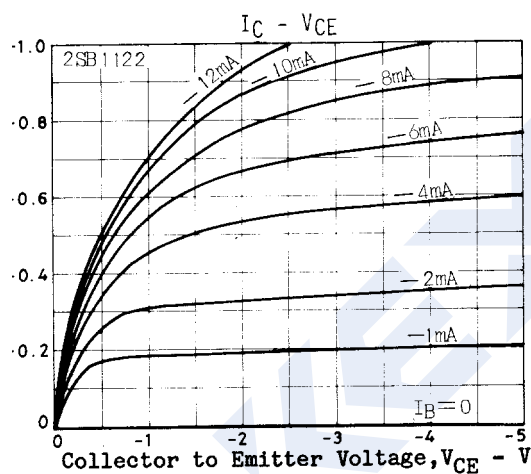
PNP Transistors

2SB1122

Switching Time Test Circuit



■ Typical Characteristics



PNP Transistors

2SB1122

■ Typical Characteristics

