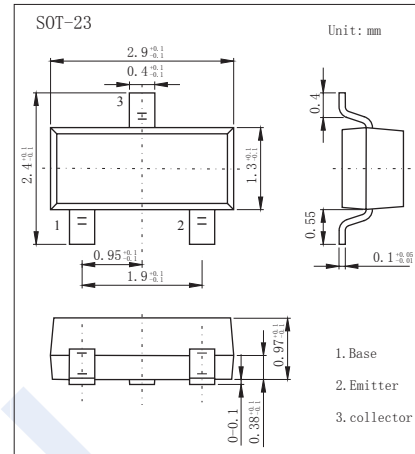


## PNP Transistors

### 2SB1295-HF

#### ■ Features

- Large current capacity.
- Low collector to emitter saturation voltage.
- Complimentary to 2SD1935-HF
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V <sub>CBO</sub>	-15	V
Collector - Emitter Voltage	V <sub>CEO</sub>	-15	
Emitter - Base Voltage	V <sub>EBO</sub>	-5	
Collector Current - Continuous	I <sub>C</sub>	-0.8	A
Collector Current - Pulse	I <sub>CP</sub>	-3	A
Collector Power Dissipation	P <sub>C</sub>	200	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature range	T <sub>stg</sub>	-55 to 150	

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V <sub>CBO</sub>	I <sub>C</sub> = -100 μA, I <sub>E</sub> =0	-15			V
Collector- emitter breakdown voltage	V <sub>CEO</sub>	I <sub>C</sub> = -1 mA, R <sub>BE</sub> =∞	-15			
Emitter - base breakdown voltage	V <sub>EBO</sub>	I <sub>E</sub> = -100 μA, I <sub>C</sub> =0	-5			
Collector-base cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = -12V, I <sub>E</sub> =0			-0.1	μA
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = -4V, I <sub>C</sub> =0			-0.1	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =-5 mA, I <sub>B</sub> =-0.5mA		-10	-25	mV
		I <sub>C</sub> =-400 mA, I <sub>B</sub> =-20mA		-100	-200	
Base - emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =-400 mA, I <sub>B</sub> =-20mA		-0.9	-1.2	V
DC current gain	h <sub>FE</sub>	V <sub>CE</sub> = -2V, I <sub>C</sub> = -50mA	135		600	
		V <sub>CE</sub> = -2V, I <sub>C</sub> = -800mA	80			
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = -10V, I <sub>E</sub> = 0, f=1MHz		15		pF
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = -2V, I <sub>E</sub> = 50mA		300		MHz

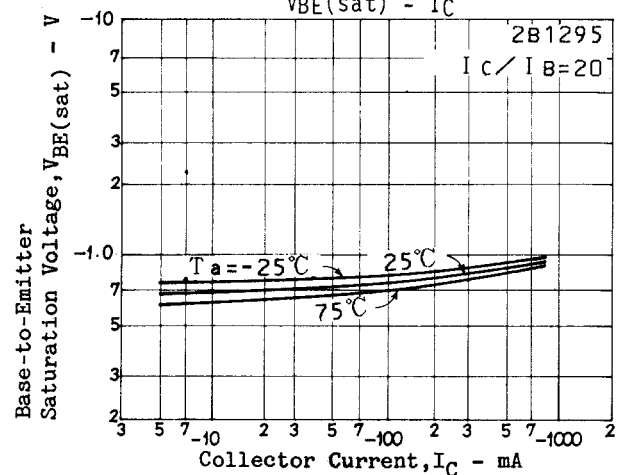
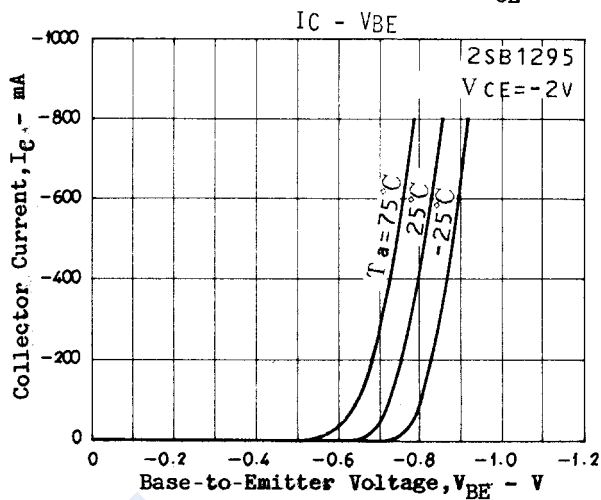
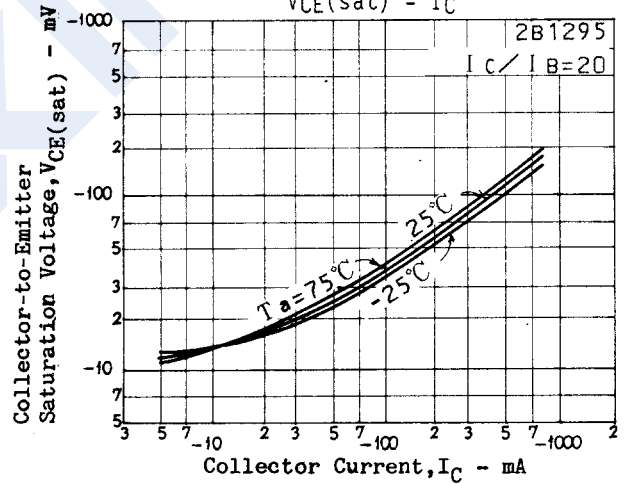
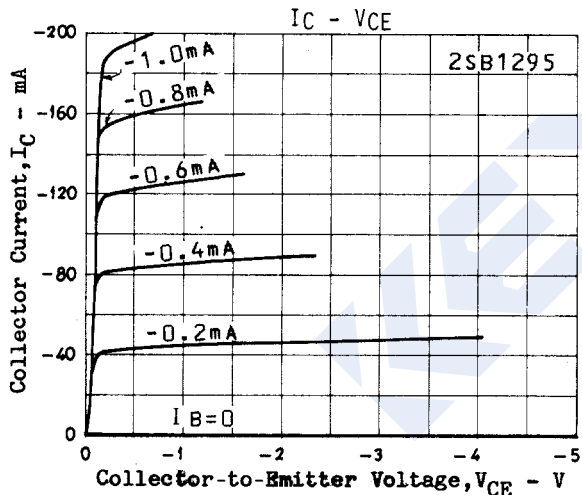
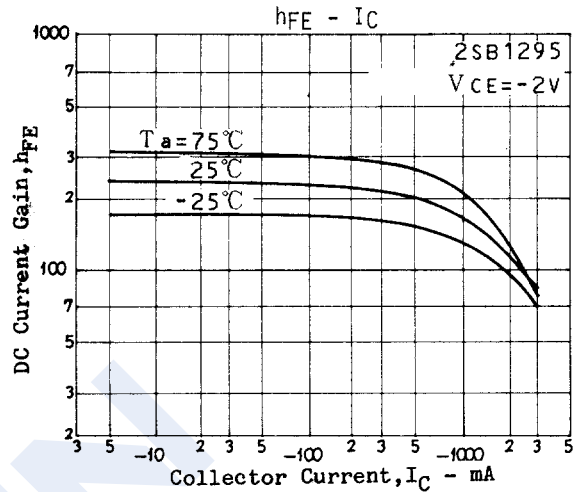
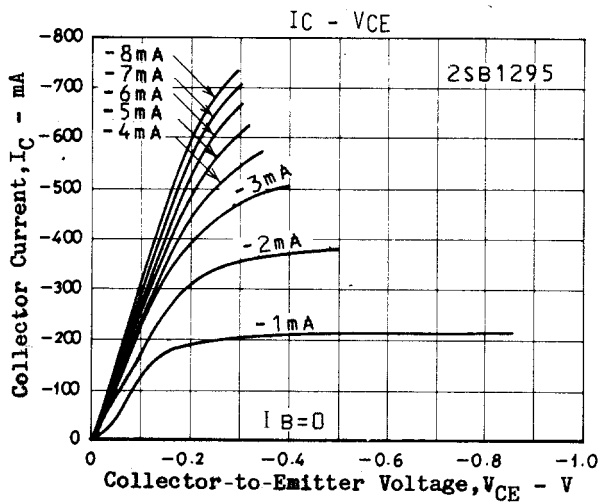
#### ■ Classification of h<sub>FE</sub>(1)

Type	2SB1295-UL5-HF	2SB1295-UL6-HF	2SB1295-UL7-HF
Range	135-270	200-400	300-600
Marking	UL5 <sub>F</sub>	UL6 <sub>F</sub>	UL7 <sub>F</sub>

PNP Transistors

2SB1295-HF

■ Typical Characteristics



## PNP Transistors

## 2SB1295-HF

## ■ Typical Characteristics

