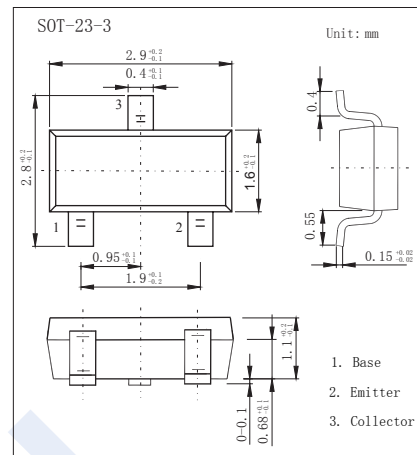


## PNP Transistors

### 2SB792-HF

#### ■ Features

- High collector to emitter voltage  $V_{CE0}$ .
- Low noise voltage NV
- Complimentary to 2SD814-HF
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish



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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CBO}$	-150	V
Collector - Emitter Voltage	$V_{CEO}$	-150	
Emitter - Base Voltage	$V_{EBO}$	-5	
Collector Current - Continuous	$I_C$	-50	mA
Collector Current - Pulse	$I_{CP}$	-100	
Collector Power Dissipation	$P_C$	200	mW
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	$V_{CBO}$	$I_C = -100 \mu\text{A}, I_E = 0$	-150			V
Collector- emitter breakdown voltage	$V_{CEO}$	$I_C = -1 \text{mA}, I_B = 0$	-150			
Emitter - base breakdown voltage	$V_{EBO}$	$I_E = -100 \mu\text{A}, I_C = 0$	-5			
Collector-base cut-off current	$I_{CBO}$	$V_{CB} = -10 \text{V}, I_E = 0$			-1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -4 \text{V}, I_C = 0$			-1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -30 \text{mA}, I_B = -3 \text{mA}$			-1	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -30 \text{mA}, I_B = -3 \text{mA}$			-1.2	
DC current gain	$h_{FE}$	$V_{CE} = -5 \text{V}, I_C = -10 \text{mA}$	130		450	
Noise voltage	NV	$V_{CE} = -10 \text{V}, I_C = -1 \text{mA}, G_v = 80 \text{dB}, R_g = 100 \text{k}\Omega, \text{Function} = \text{FLAT}$		150		mV
Collector output capacitance	$C_{ob}$	$V_{CB} = -10 \text{V}, I_E = 0, f = 1 \text{MHz}$		4		pF
Transition frequency	$f_T$	$V_{CE} = -10 \text{V}, I_E = 10 \text{mA}, f = 200 \text{MHz}$		200		MHz

#### ■ Classification of $h_{FE}$

Type	2SB792-R-HF	2SB792-S-HF	2SB792-T-HF
Range	130-220	185-330	260-450
Marking	$IR_F$	$IS_F$	$IT_F$

# PNP Transistors

## 2SB792-HF

■ Typical Characteristics

