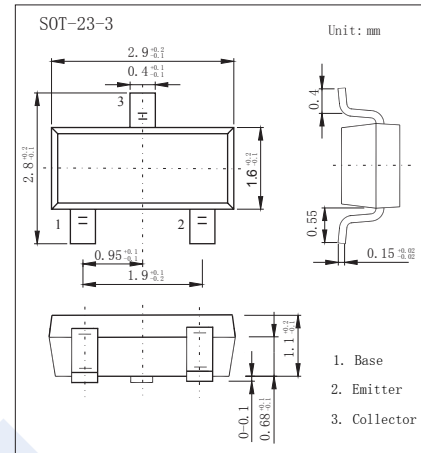
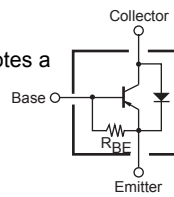


## PNP Transistors

### 2SB1527-HF

#### ■ Features

- Large current capacitance
- Low collector-emitter saturation voltage
- Contains a bias resistor between base and emitter
- 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	$V_{CB0}$	-20	V
Collector - Emitter Voltage	$V_{CE0}$	-15	
Emitter - Base Voltage	$V_{EB0}$	-5	
Collector Current - Continuous	$I_C$	-0.8	A
Collector Current - Pulse	$I_{CP}$	-2	
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	$V_{CB0}$	$I_C = -100 \mu\text{A}, I_E = 0$	-20			V
Collector- emitter breakdown voltage	$V_{CE0}$	$I_C = -10 \text{ mA}, R_{BE} = \infty$	-15			
Emitter - base breakdown voltage	$V_{EB0}$	$I_E = -100 \mu\text{A}, I_C = 0$	-5			
Collector-base cut-off current	$I_{CBO}$	$V_{CB} = -15\text{V}, I_E = 0$			-1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -5\text{V}, I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500 \text{ mA}, I_B = -10 \text{ mA}$		-0.2	-0.4	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -500 \text{ mA}, I_B = -10 \text{ mA}$		-0.95	-1.3	
DC current gain	$h_{FE}$	$V_{CE} = -2\text{V}, I_C = -500 \text{ mA}$	70			
Diode forward voltage	$V_F$	$I_F = 0.5\text{A}$			-1.5	V
Base - emitter resistance	$R_{BE}$			1		$\text{k}\Omega$
Collector output capacitance	$C_{ob}$	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$		30		pF
Transition frequency	$f_T$	$V_{CE} = -2\text{V}, I_C = -500 \text{ mA}$		250		MHz

#### ■ Marking

Marking	NS F
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# PNP Transistors

## 2SB1527-HF

### Typical Characteristics

