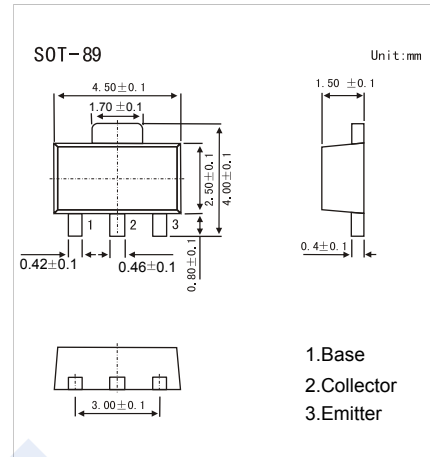


## PNP Transistors

### 2SB1572

#### ■ Features

- Low collector-emitter saturation voltage
- Complementary to 2SD2403



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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	$V_{CBO}$	-80	V
Collector - Emitter Voltage	$V_{CEO}$	-60	
Emitter - Base Voltage	$V_{EBO}$	-6	
Collector Current - Continuous	$I_C$	-3	A
Collector Current - Pulse	$I_{CP}$	-5	
Collector Power Dissipation	$P_C$	2	W
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	$V_{CBO}$	$I_C = -100 \mu\text{A}$ , $I_E = 0$	-80			V
Collector- emitter breakdown voltage	$V_{CEO}$	$I_C = -1 \text{ mA}$ , $I_B = 0$	-60			
Emitter - base breakdown voltage	$V_{EBO}$	$I_E = -100 \mu\text{A}$ , $I_C = 0$	-6			
Collector-base cut-off current	$I_{CBO}$	$V_{CB} = -80\text{V}$ , $I_E = 0$			-0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -6\text{V}$ , $I_C = 0$			-0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -2 \text{ A}$ , $I_B = -100 \text{ mA}$		-0.2	-0.4	V
		$I_C = -3 \text{ A}$ , $I_B = -150 \text{ mA}$		-0.3	-0.6	
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = -2 \text{ A}$ , $I_B = -100 \text{ mA}$		-0.89	-1.2	
Base - emitter voltage	$V_{BE}$	$V_{CE} = -2\text{V}$ , $I_C = -100 \text{ mA}$	-0.63		-0.73	
DC current gain	$h_{FE}$	$V_{CE} = -2\text{V}$ , $I_C = -100 \text{ mA}$	80			
		$V_{CE} = -2\text{V}$ , $I_C = -1 \text{ A}$	100	200	400	
Turn-on Time	$t_{on}$	$I_C = -1 \text{ A}$ , $V_{CC} = -10 \text{ V}$ , $R_L = 5.0 \Omega$ , $I_{B1} = -I_{B2} = -0.1 \text{ A}$ ,		155		ns
Storage Time	$t_{stg}$			510		
Fall Time	$t_f$			35		
Collector output capacitance	$C_{ob}$	$V_{CB} = -10\text{V}$ , $I_E = 0$ , $f = 1\text{MHz}$		45		pF
Transition frequency	$f_T$	$V_{CE} = -10\text{V}$ , $I_E = 300 \text{ mA}$		160		MHz

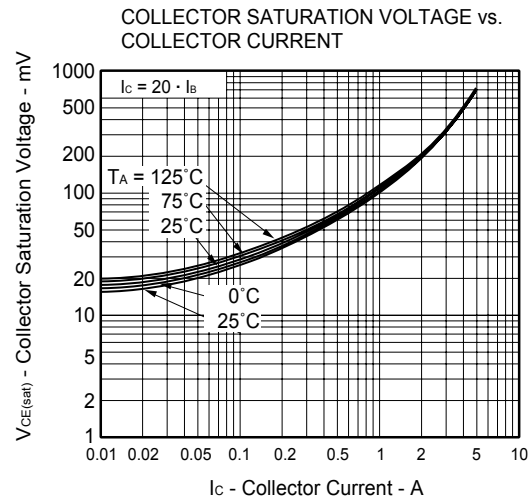
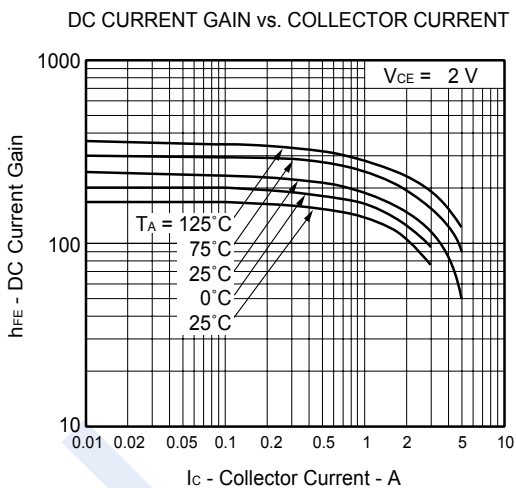
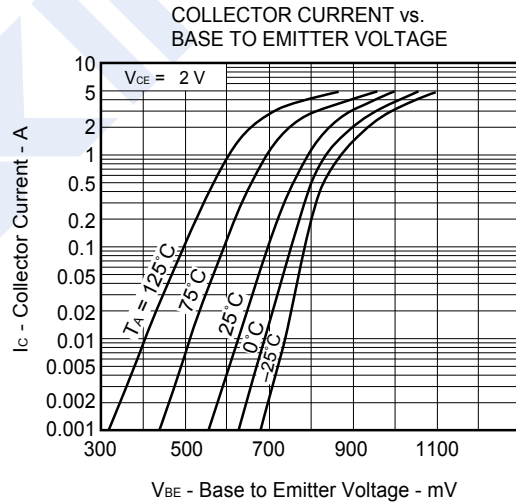
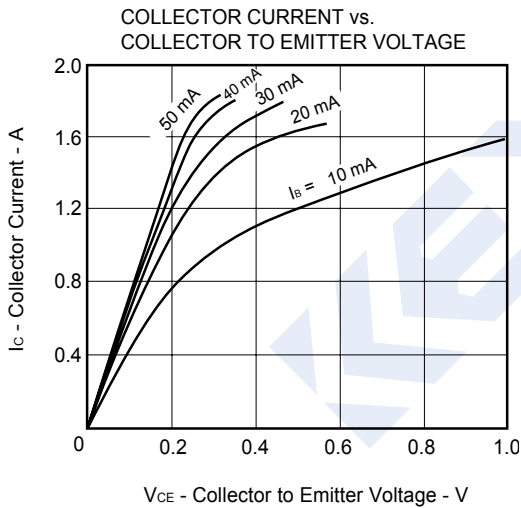
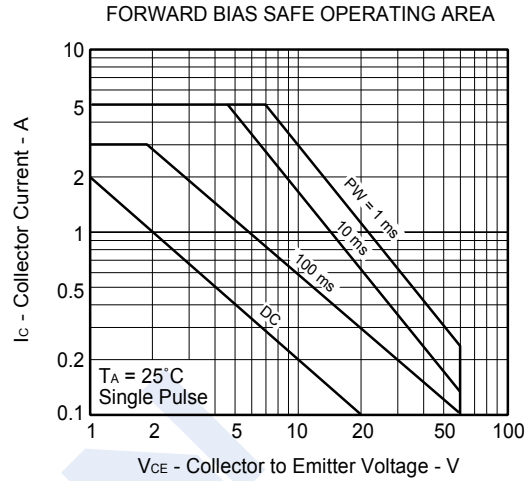
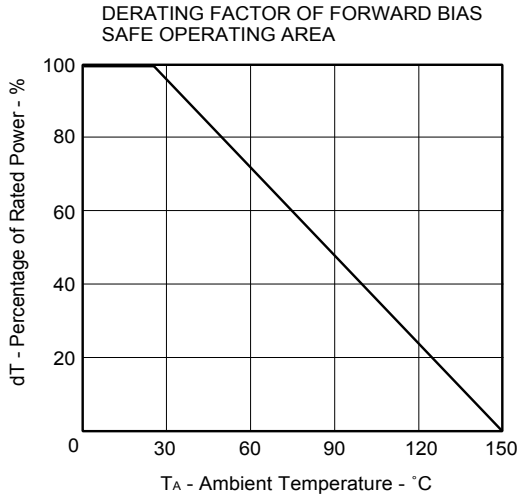
#### ■ Classification of $h_{FE}(2)$

Type	2SB1572-X	2SB1572-Y	2SB1572-Z
Range	100-200	160-320	200-400
Marking	HX	HY	HZ

# PNP Transistors

## 2SB1572

### Typical Characteristics



# PNP Transistors

## 2SB1572

### Typical Characteristics

