

PNP Transistors

2SB1572-HF

Features

- Low collector-emitter saturation voltage
- Complementary to 2SD2403-HF
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish

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

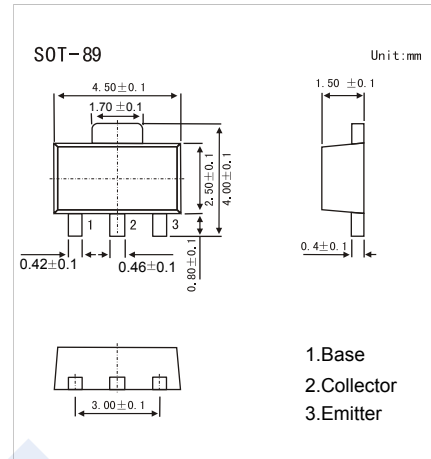
Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-80	V
Collector - Emitter Voltage	V_{CEO}	-60	
Emitter - Base Voltage	V_{EBO}	-6	
Collector Current - Continuous	I_C	-3	A
Collector Current - Pulse	I_{CP}	-5	
Collector Power Dissipation	P_C	2	W
Junction Temperature	T_J	150	$^\circ\text{C}$
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	μA
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		μF
Transition frequency	f_T	$V_{CE} = -10\text{V}$, $I_E = 300 \text{ mA}$		160		MHz

Classification of $h_{FE}(2)$

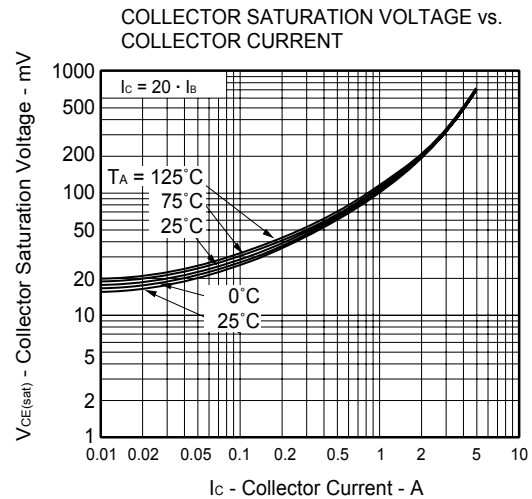
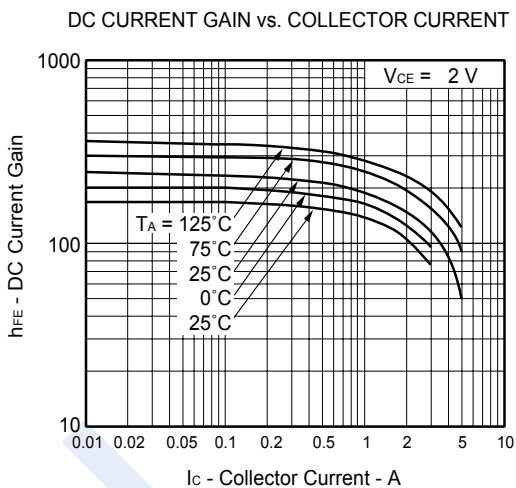
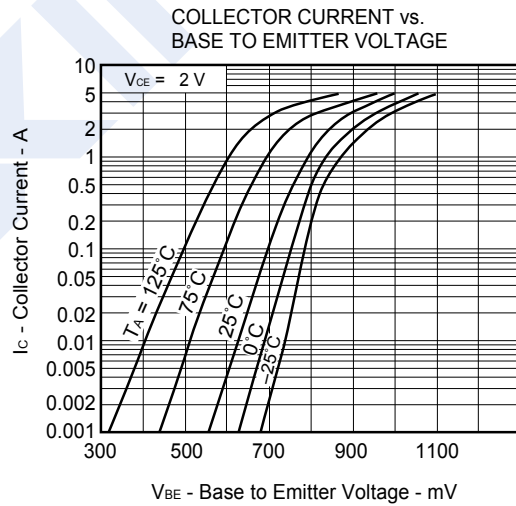
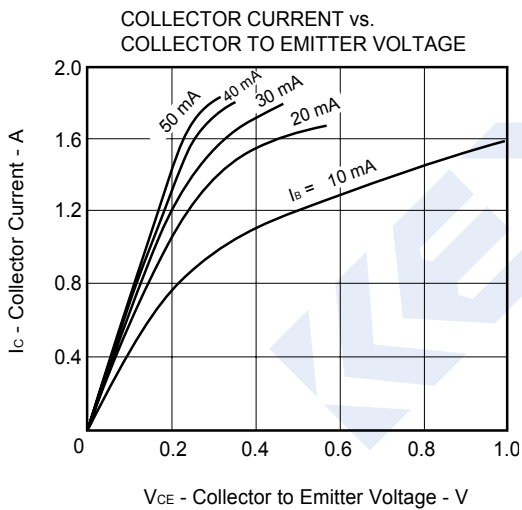
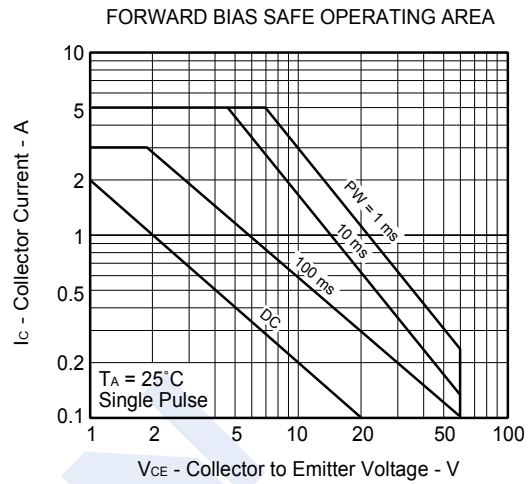
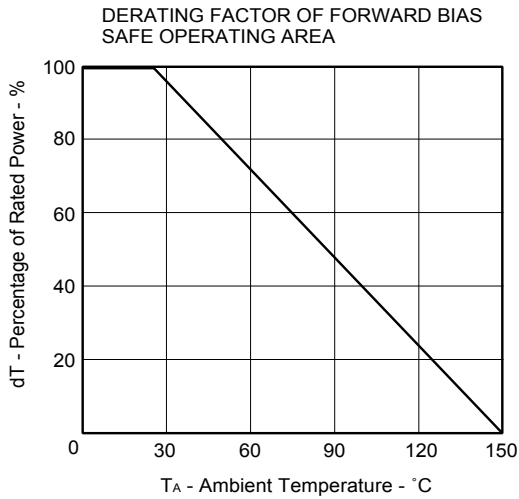
Type	2SB1572-X-HF	2SB1572-Y-HF	2SB1572-Z-HF
Range	100-200	160-320	200-400
Marking	HX _F	HY _F	HZ _F



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Typical Characteristics



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