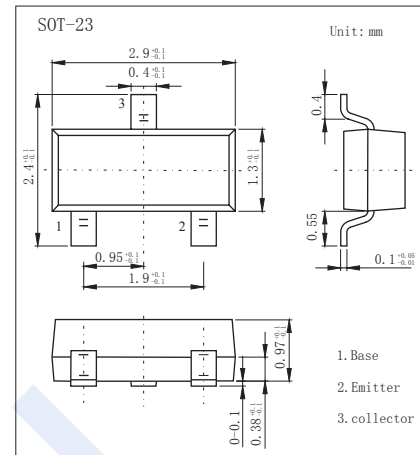


PNP Transistors

2SB624-HF

■ Features

- High DC current gain. h_{FE} :200 TYP.($V_{CE}=-1V, I_C=-100mA$)
- Complimentary to 2SD596-HF.
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish



■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-30	V
Collector - Emitter Voltage	V_{CEO}	-25	
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_C	-700	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature range	T_{stg}	-55 to 150	

■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	$I_C = -100 \mu A, I_E = 0$	-30			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = -1 mA, I_B = 0$	-25			
Emitter - base breakdown voltage	V_{EBO}	$I_E = -100 \mu A, I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -30 V, I_E = 0$			-100	nA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5 V, I_C = 0$			-100	
Collector-emitter saturation voltage (Note.1)	$V_{CE(sat)}$	$I_C = -700 mA, I_B = -70 mA$			-0.6	V
Base - emitter saturation voltage (Note.1)	$V_{BE(sat)}$	$I_C = -700 mA, I_B = -70 mA$			-1.2	
Base - emitter voltage (Note.1)	V_{BE}	$V_{CE} = -6 V, I_C = -10 mA$	-0.6		-0.7	
DC current gain (Note.1)	$h_{FE(1)}$	$V_{CE} = -1 V, I_C = -100 mA$	110		400	
	$h_{FE(2)}$	$V_{CE} = -1 V, I_C = -700 mA$	50			
Collector output capacitance	C_{ob}	$V_{CB} = -6 V, I_E = 0, f = 1 MHz$		17		pF
Transition frequency	f_T	$V_{CE} = -6 V, I_C = -10 mA$		160		MHz

Note.1: Pulse test : Pulse width $\leq 350 \mu s$, Duty Cycle $\leq 2\%$.

■ Classification of $h_{FE(1)}$

Type	2SB624-BV1-HF	2SB624-BV2-HF	2SB624-BV3-HF	2SB624-BV4-HF	2SB624-BV5-HF
Range	110-180	135-220	170-270	200-320	250-400
Marking	BV1 _F	BV2 _F	BV3 _F	BV4 _F	BV5 _F