

PNP Epitaxial Planar Silicon Transistors

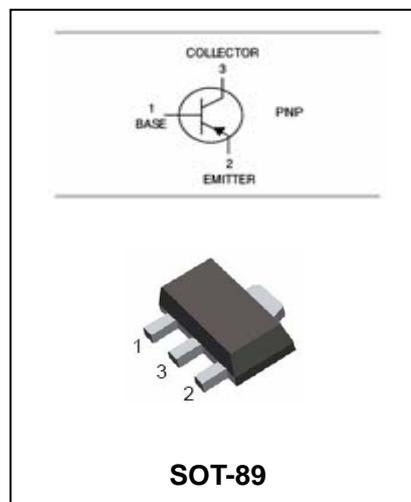
2SB1124

FEATURES

- Fast switching speed.
- Low collector-to-emitter saturation voltage.
- Large current capacity and wide ASO.



Lead-free



ORDERING INFORMATION

Type No.	Marking	Package Code
2SB1124	BG	SOT-89

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _C	Collector Current –DC -Pulse	-3 -6	A
P _C	Collector Dissipation	500	mW
T _j , T _{stg}	Junction and Storage Temperature	-55 to+150	°C



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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -10\mu A, I_E = 0$	-60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1mA, I_B = 0$	-50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10\mu A, I_C = 0$	-6			V
Collector cut-off current	I_{CBO}	$V_{CB} = -40V, I_E = 0$			-1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -4V, I_C = 0$			-	μA
DC current gain	h_F	$V_{CE} = -2V, I_C = -100mA$ $V_{CE} = -2V, I_C = -3A$	100 35		560	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -2A, I_B = -100mA$		-0.35	-0.7	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = -2A, I_B = -100mA$		-0.94	-1.2	V
Transition frequency	f_T	$V_{CE} = -10V, I_C = -50mA,$		150		MHz
Output Capacitance	C_{obo}	$V_{CB} = -10V, f = 1.0MHz, I_E = 0$		39		pF

CLASSIFICATION OF h_{FE}

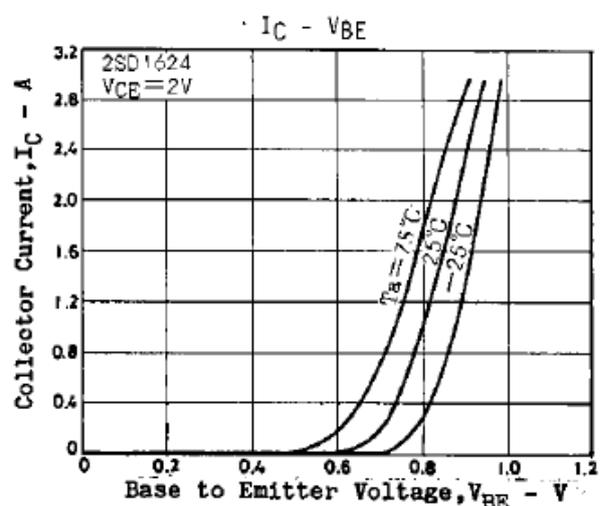
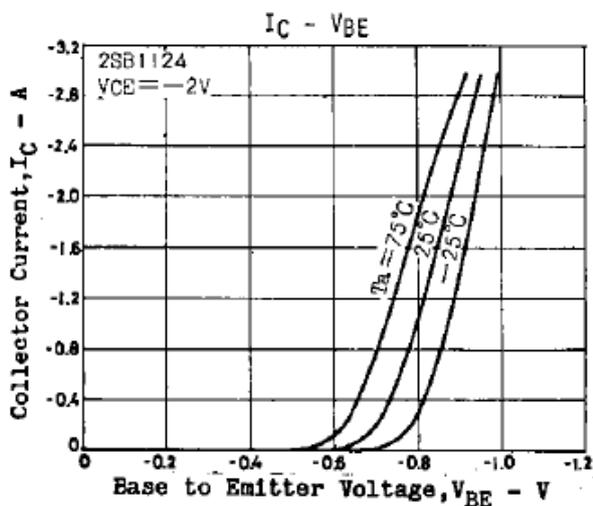
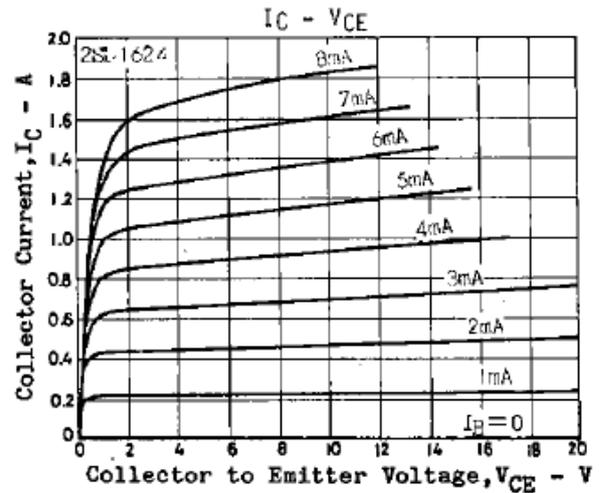
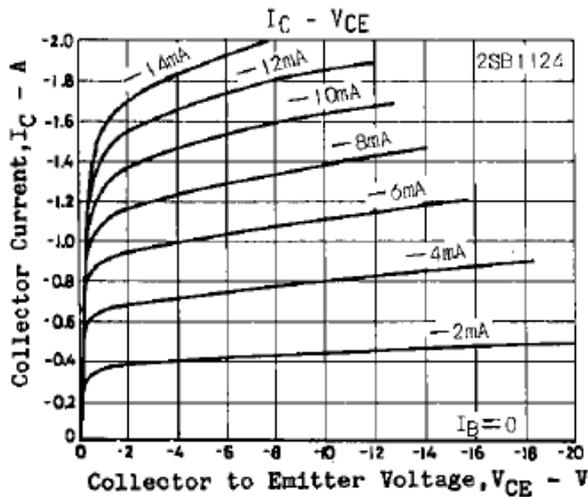
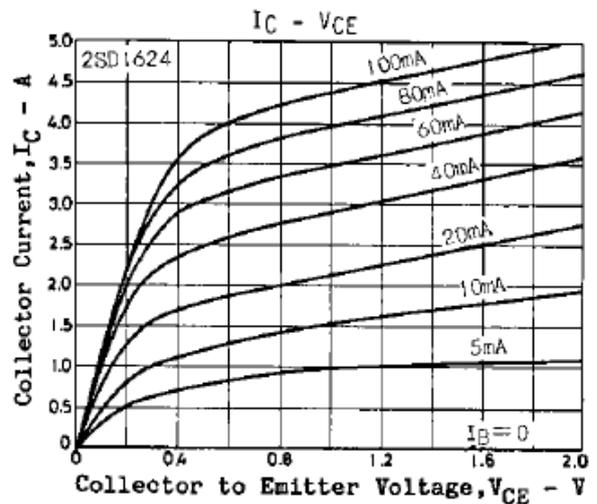
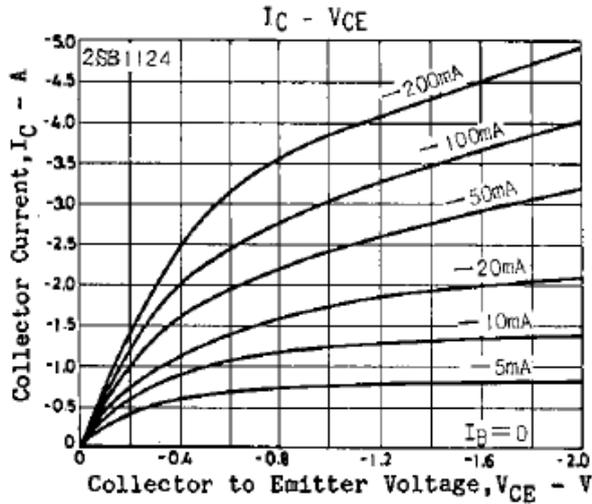
Rank	R	S	T	U
Range	100-200	140-280	200-400	280-560



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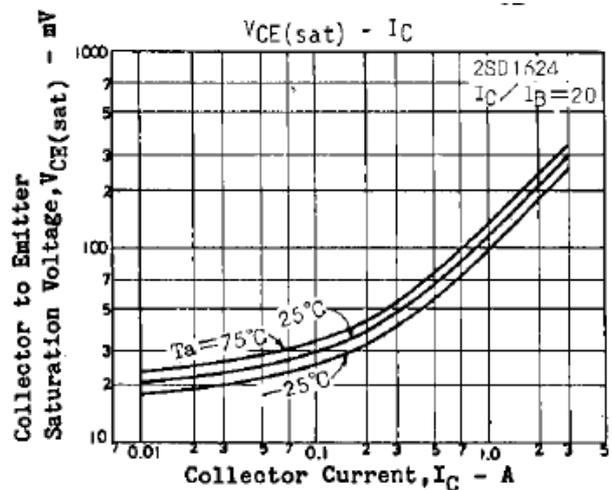
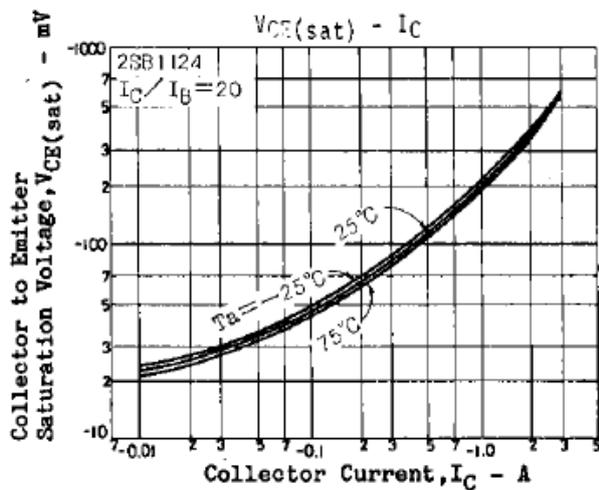
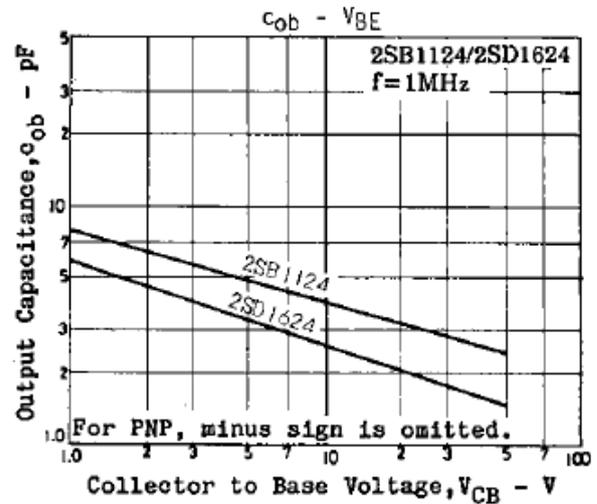
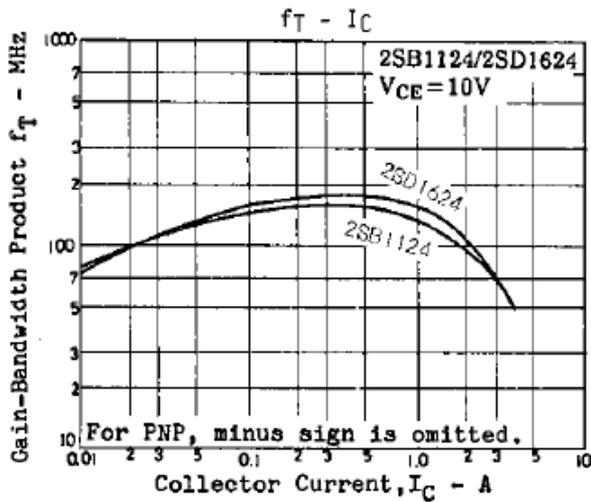
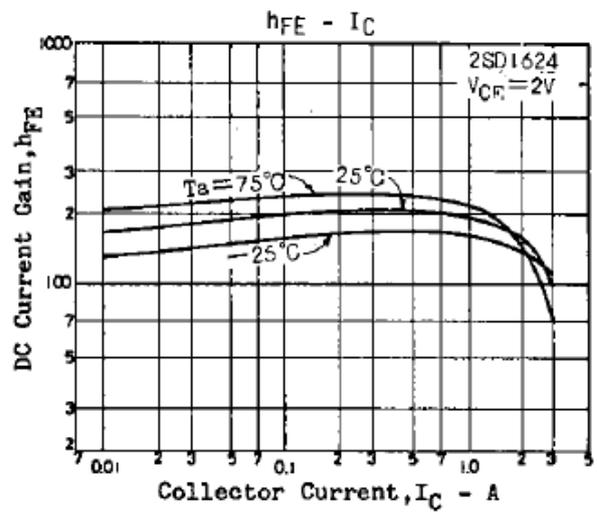
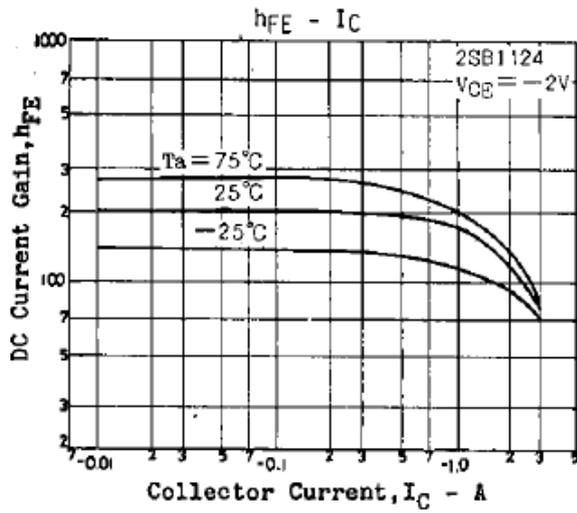
TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified





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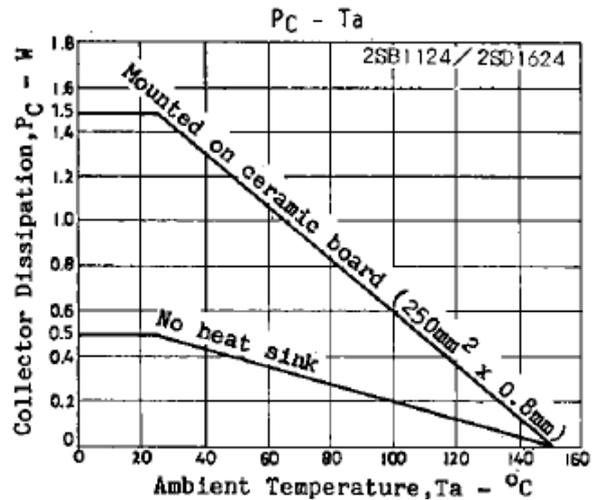
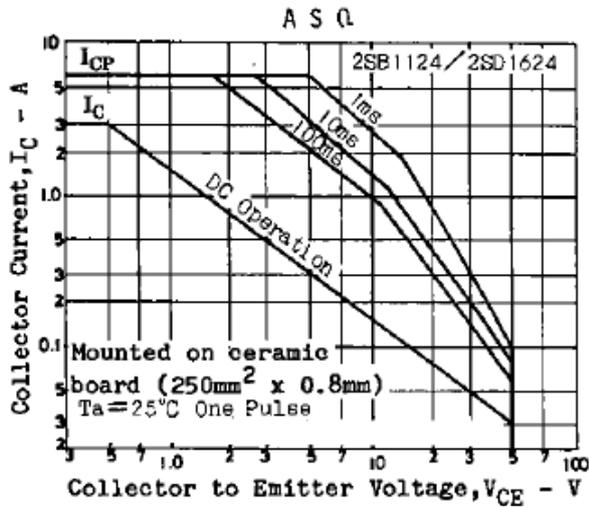
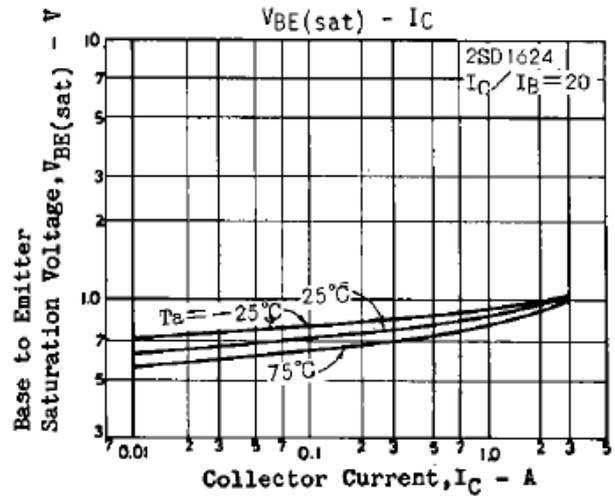
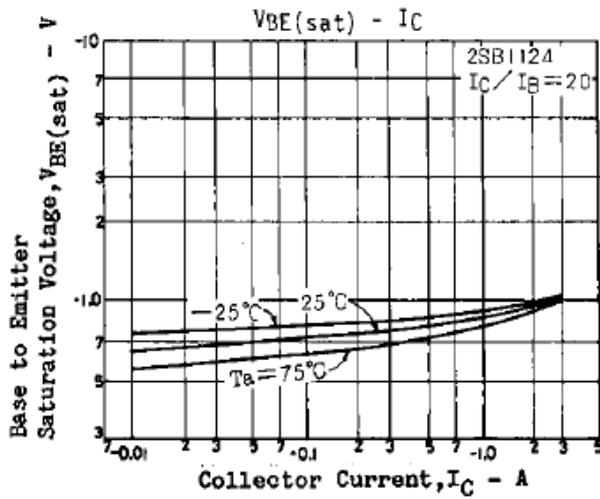
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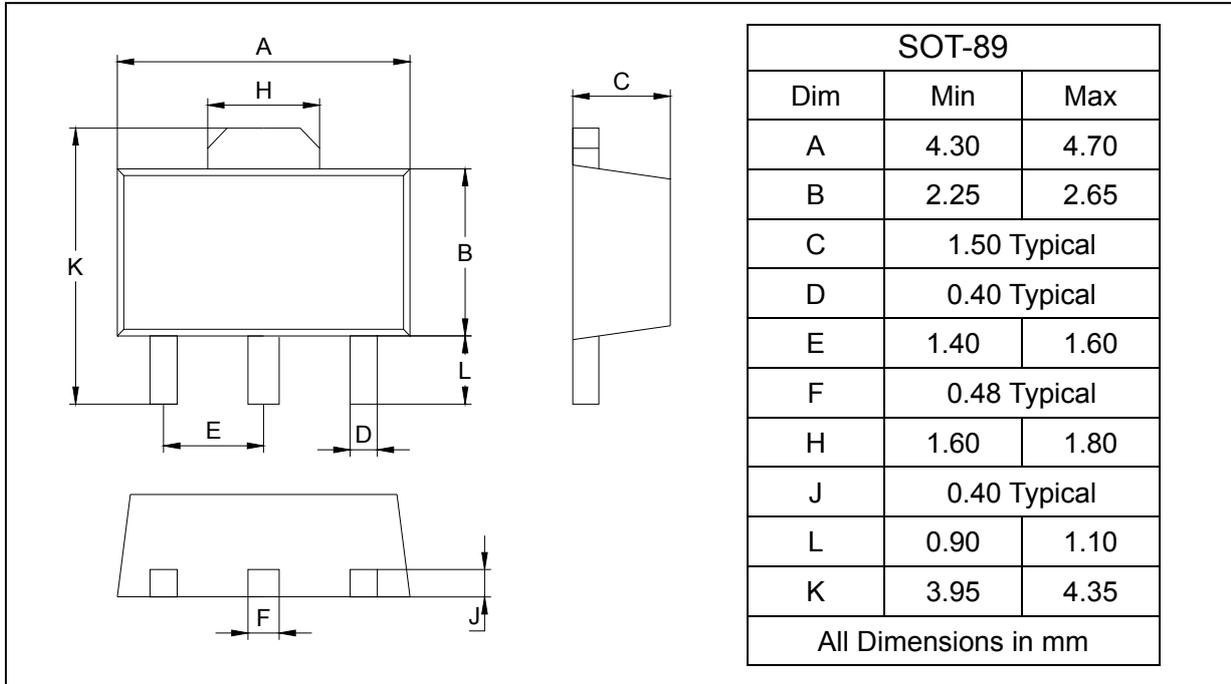
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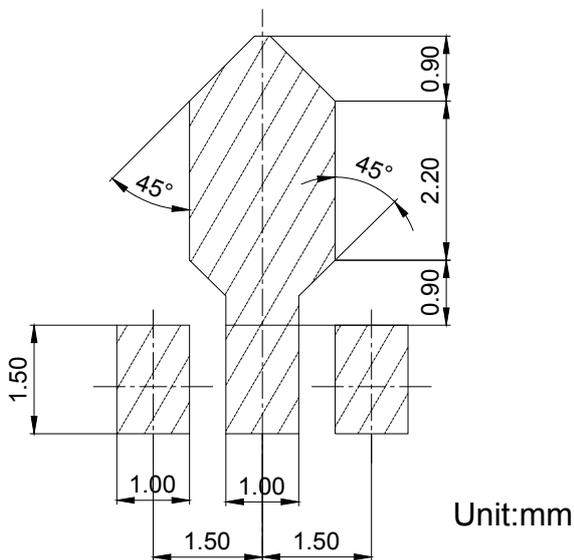
PACKAGE OUTLINE

Plastic surface mounted package

SOT-89



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
2SB1124	SOT-89	1000/Tape&Reel