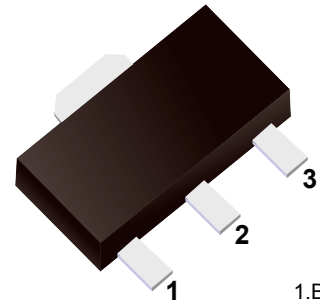


■ PNP Transistor

■ Features

- Low collector-to-emitter saturation voltage.
- Large current capacity and wide ASO.
- Fast switching speed.
- Complementary to 2SD1623



1.Base
2.Collector
3.Emitter

■ Simplified outline(SOT-89)

■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	-60	V
Collector - Emitter Voltage	V _{CEO}	-50	
Emitter - Base Voltage	V _{EBO}	-6	
Collector Current - Continuous	I _C	-2	A
Collector current -Pulse	I _{CP}	-4	
Collector Power Dissipation (Note.1)	P _C	0.5	W
		1.3	
Junction Temperature	T _J	150	°C
Storage Temperature range	T _{stg}	-55 to 150	

Note.1: Mounted on ceramic board (250mm²×0.8mm)

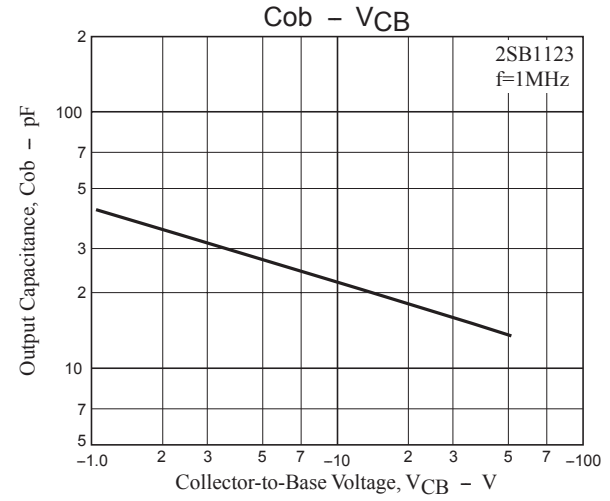
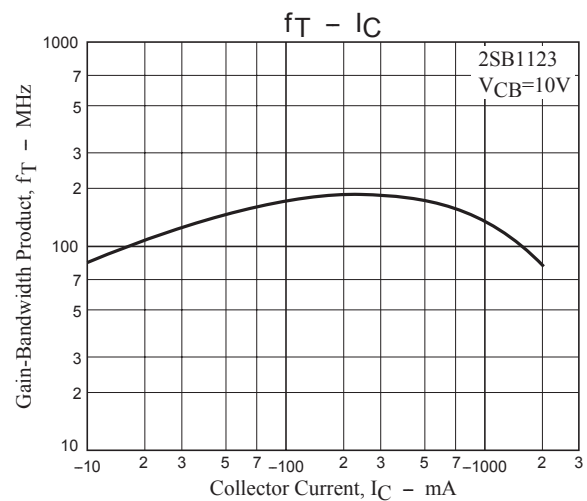
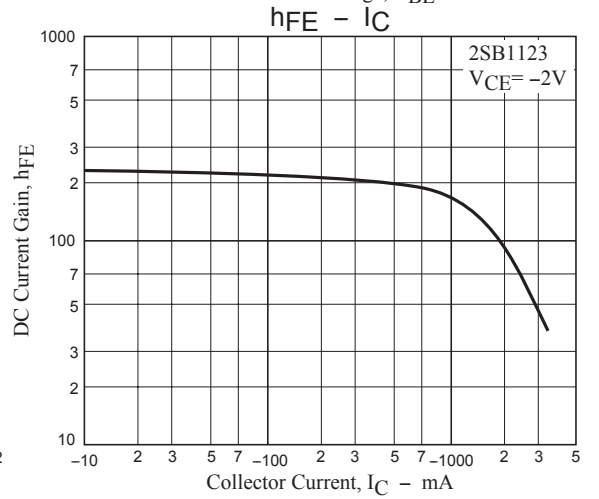
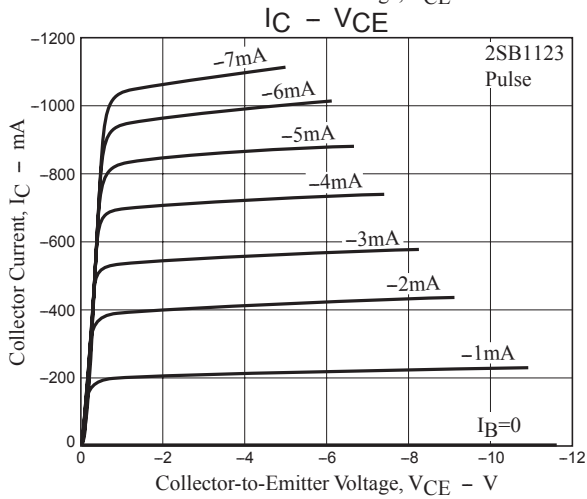
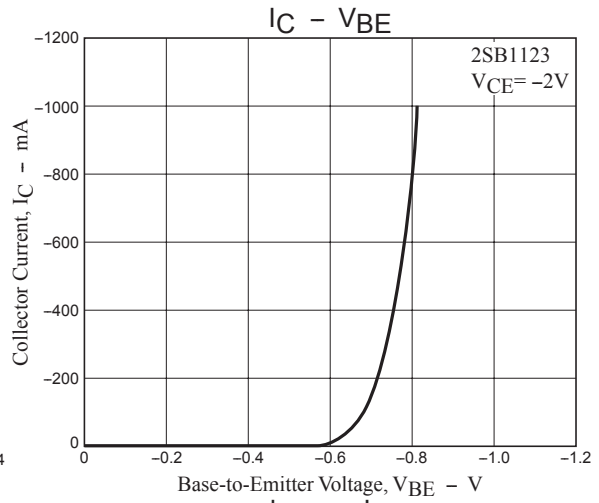
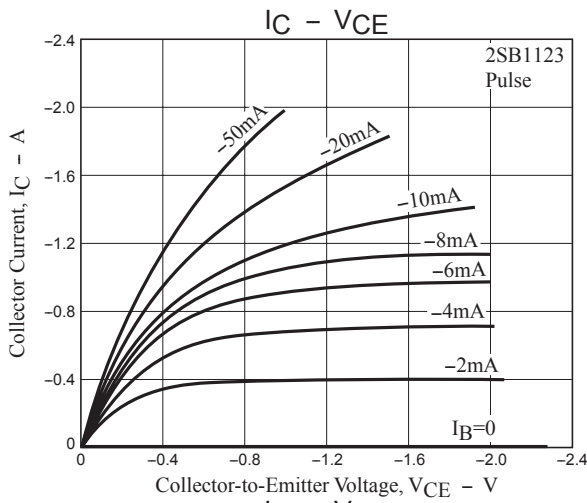
■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CB0}	I _C = -100 μA, I _E =0	-60			V
Collector- emitter breakdown voltage	V _{CEO}	I _C = -1 mA, R _{BE} =∞	-50			
Emitter - base breakdown voltage	V _{EBO}	I _E = -100 μA, I _C =0	-6			
Collector-base cut-off current	I _{CB0}	V _{CB} = -50V, I _E =0			-0.1	uA
Emitter cut-off current	I _{EBO}	V _{EB} = -5V, I _C =0			-0.1	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-1 A, I _B =-50mA		-0.3	-0.7	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C =-1 A, I _B =-50mA		-0.9	-1.2	
DC current gain	h _{FE}	V _{CE} = -2V, I _C = -100 mA	100		560	
		V _{CE} = -2V, I _C = -1.5 A	40			
Turn-ON Time	t _{on}	See specified Test Circuit.		60		ns
Storage Time	t _{stg}			450		
Fall Time	t _f			30		
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0, f = 1MHz		22		pF
Transition frequency	f _T	V _{CE} = -10V, I _C = -50mA		150		MHz

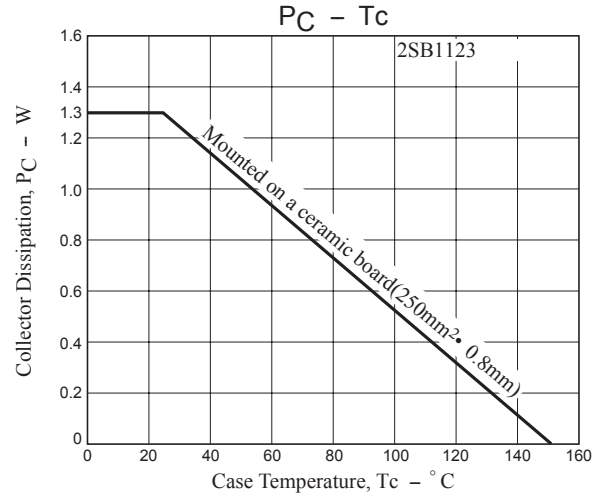
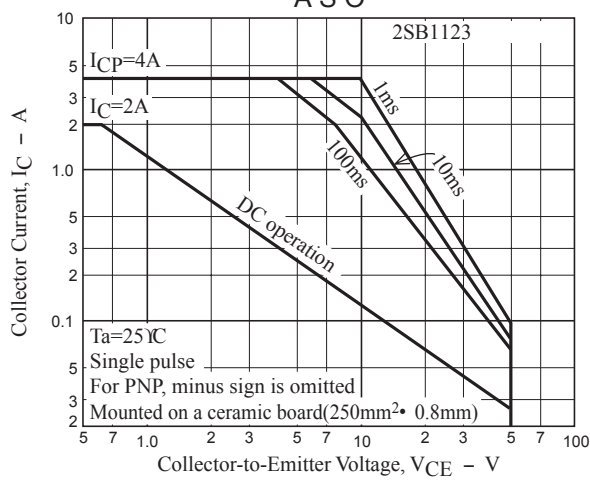
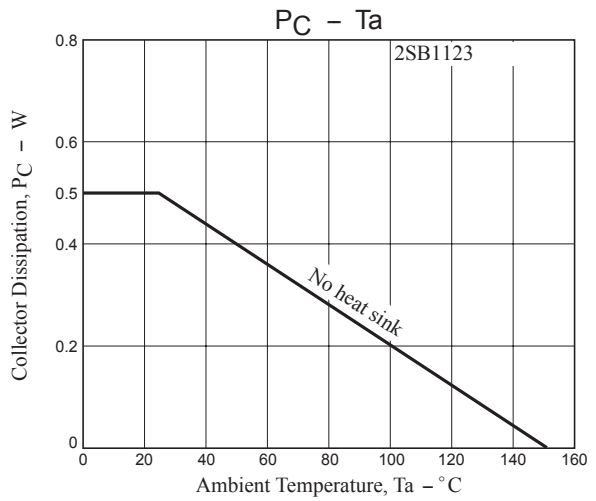
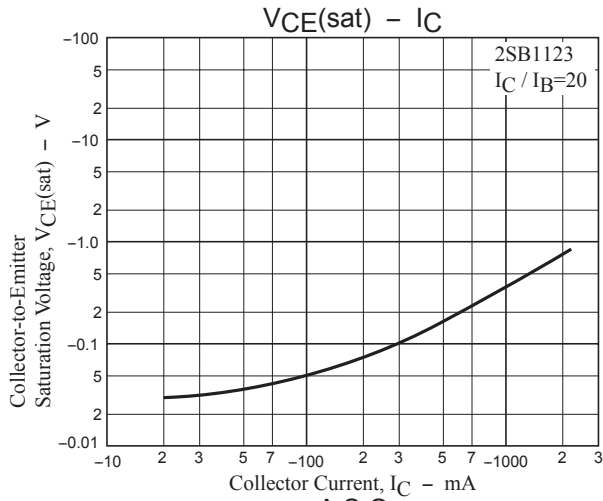
■ Classification of h_{FE}(1)

Type	2SB1123-R	2SB1123-S	2SB1123-T	2SB1123-U
Range	100-200	140-280	200-400	280-560
Marking	BF R*	BF S*	BF T*	BF U*

■ Typical Characteristics

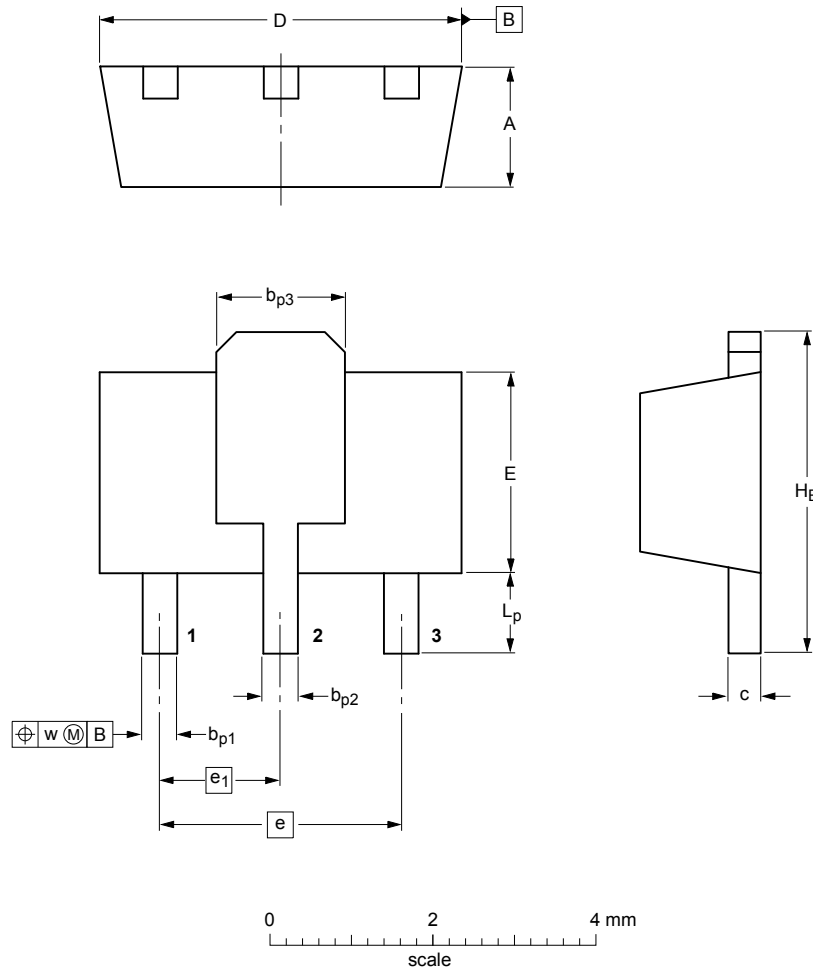


■ Typical Characteristics



Package Outline

SOT-89



DIMENSIONS (mm are the original dimensions)

UNIT	A	b _{p1}	b _{p2}	b _{p3}	c	D	E	e	e ₁	H _E	L _p	w
mm	1.6 1.4	0.48 0.35	0.53 0.40	1.8 1.4	0.44 0.23	4.6 4.4	2.6 2.4	3.0	1.5	4.25 3.75	1.2 0.8	0.13

Summary of Packing Options

Package	Package Description	Packing Quantity	Industry Standard
SOT-89	Tape/Reel, 7" reel	1000	EIA-481-1