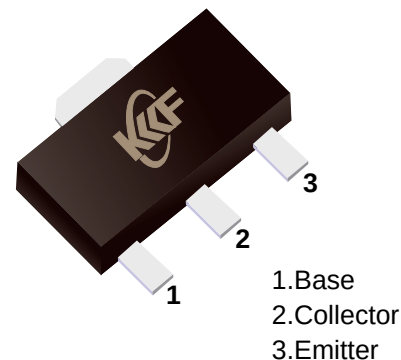


2SB1132

PNP Transistors

Features

- Low $V_{CE(sat)}$
- Compliments to 2SD1664



■ Simplified outline(SOT-89)

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

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-32	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current (DC) Single pulse, $P_w=100\text{ms}$	I_C	-1	A
		-2	A
Collector Power Dissipation	P_C *	0.5	W
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature Range	T_{stg}	-55 to +150	$^\circ\text{C}$

* When mounted on a 40x40x0.7mm ceramic board.

Electrical Characteristics $T_a = 25^\circ\text{C}$

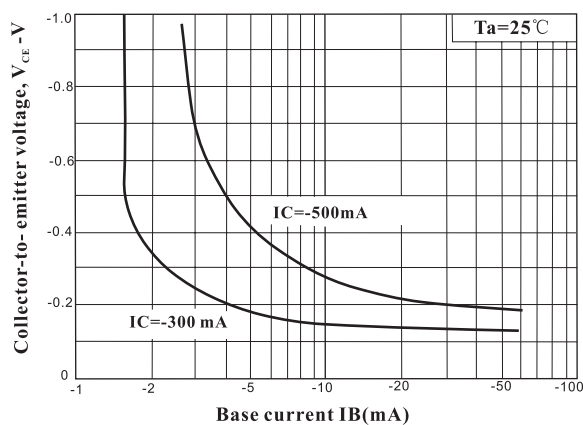
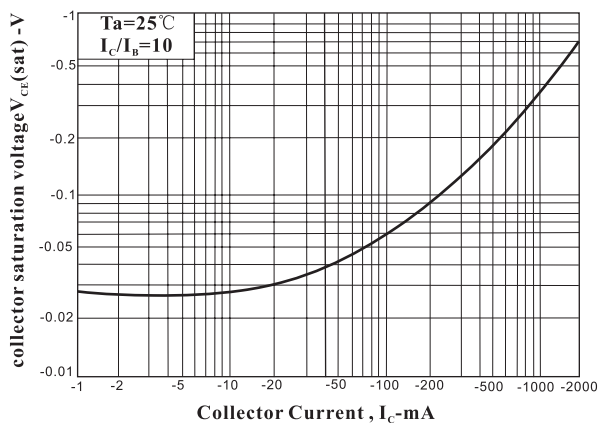
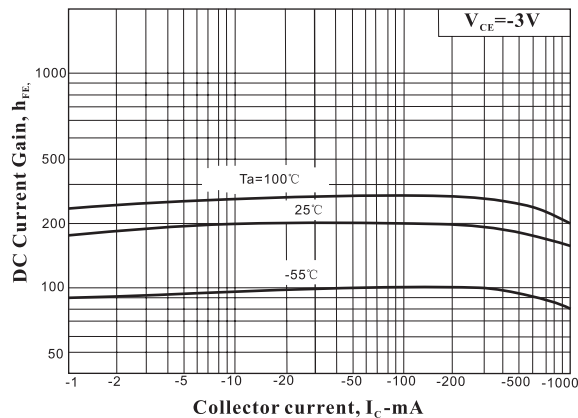
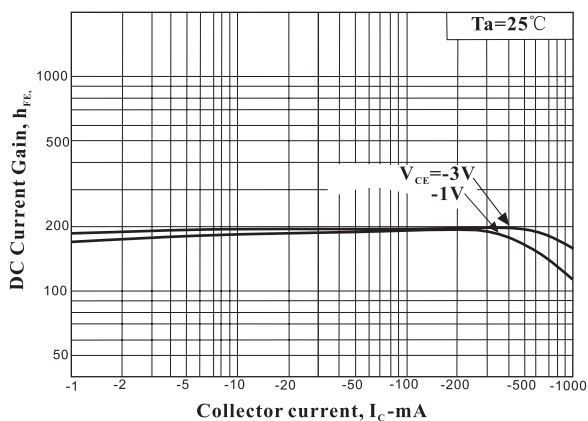
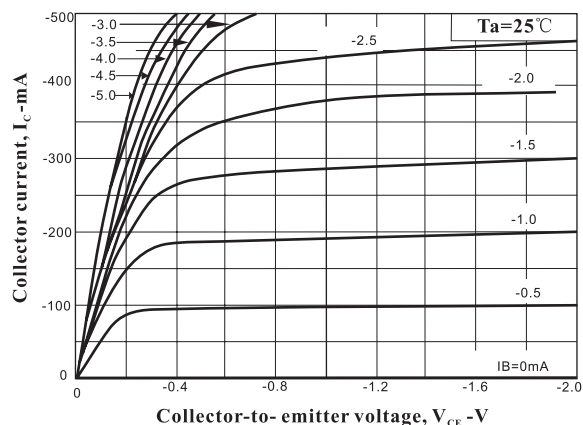
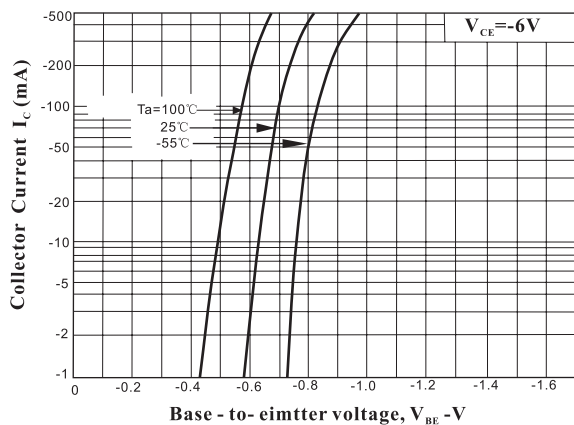
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CBO}	$I_C = -50\mu\text{A}$, $I_E = 0$	-40			V
Collector- emitter breakdown voltage	V_{CEO}	$I_C = -1\text{mA}$, $I_B = 0$	-32			
Emitter - base breakdown voltage	V_{EBO}	$I_E = -50\mu\text{A}$, $I_C = 0$	-5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = -20\text{V}$, $I_E = 0$			-0.5	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -4\text{V}$, $I_C = 0$			-0.5	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500\text{mA}$, $I_B = -50\text{mA}$		-0.2	-0.5	V
DC current gain	h_{FE}	$V_{CE} = -3\text{V}$, $I_C = -0.1\text{A}$	82		390	
Collector output capacitance	C_{ob}	$V_{CB} = -10\text{V}$, $I_E = 0\text{mA}$, $f = 1\text{MHz}$		20	30	pF
Transition frequency	f_T	$V_{CE} = -5\text{V}$, $I_E = 50\text{mA}$, $f = 30\text{MHz}$		150		MHz

h_{FE} Classification

Type	2SB1132-P	2SB1132-Q	2SB1132-R
Range	82-180	120-270	180-390
Marking	BAP*	BAQ*	BAR*

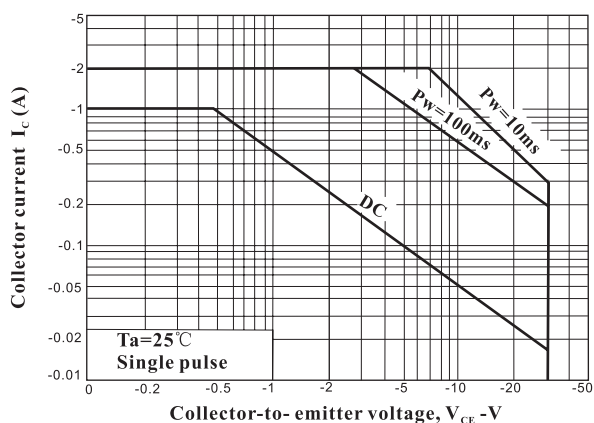
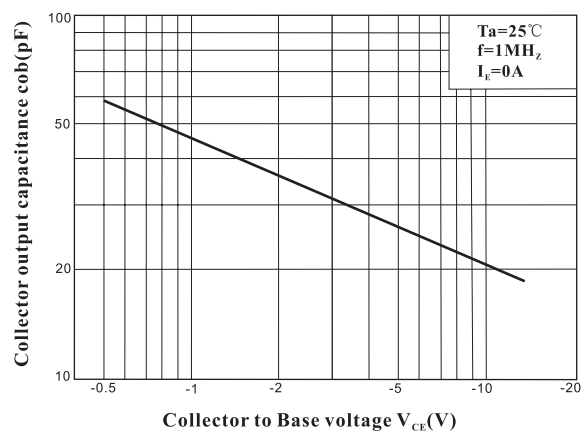
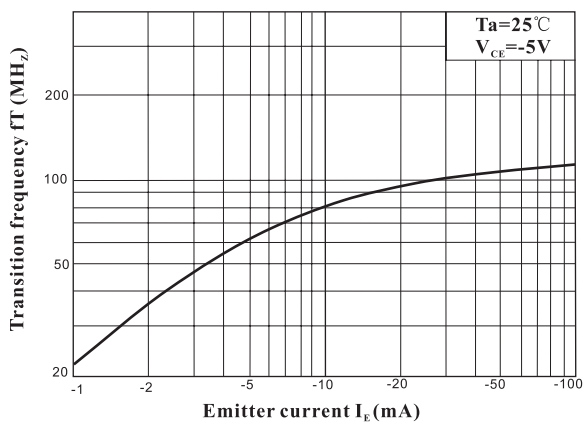
2SB1132

■ Typical Characteristics



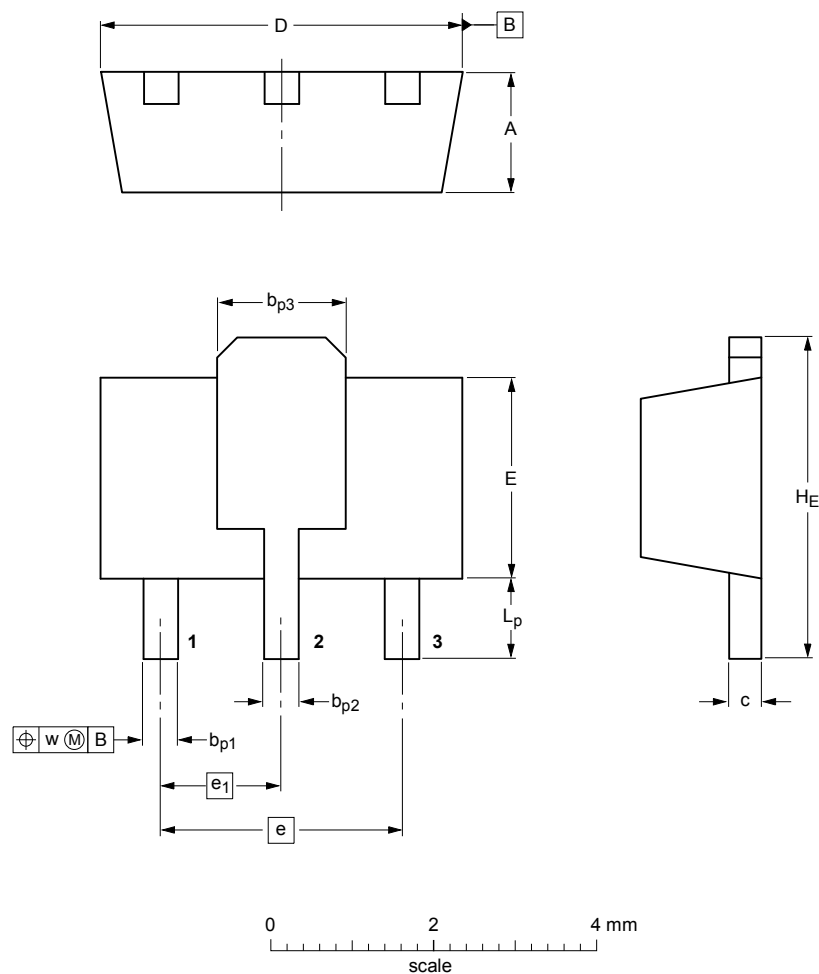
2SB1132

■ Typical Characteristics



2SB1132

■ 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