

2SB1122

Continued from preceding page.

Parameter	Symbol	Conditions	Ratings	Unit
Collector Dissipation	PC	When mounted on ceramic substrate (250mm ² ×0.8mm)	1.3	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

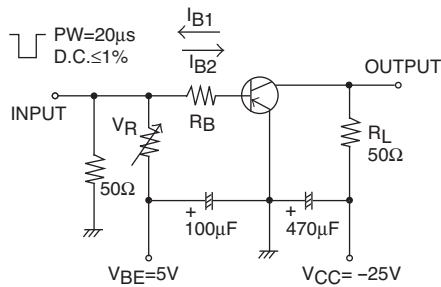
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	ICBO	V _{CB} =-50V, I _E =0A			-100	nA
Emitter Cutoff Current	IEBO	V _{EB} =-4V, I _C =0A			-100	nA
DC Current Gain	h _{FE1}	V _{CE} =-2V, I _C =-100mA	140*		400*	
	h _{FE2}	V _{CE} =-2V, I _C =-1A	30			
Gain-Bandwidth Product	f _T	V _{CE} =-10V, I _C =-50mA		150		MHz
Output Capacitance	Cob	V _{CB} =-10V, f=1MHz		12		pF
Collector to Emitter Saturation Voltage	V _{CE(sat)}	I _C =-500mA, I _B =-50mA		-180	-500	mV
Base to Emitter Saturation Voltage	V _{BE(sat)}	I _C =-500mA, I _B =-50mA		-0.9	-1.2	V
Collector to Base Breakdown Voltage	V _{(BR)CBO}	I _C =-10μA, I _E =0A	-60			V
Collector to Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =-1mA, R _{BE} =∞	-50			V
Emitter to Base Breakdown Voltage	V _{(BR)EBO}	I _E =-10μA, I _C =0A	-5			V
Turn-ON Time	t _{on}	See specified Test Circuit.		40		ns
Storage Time	t _{stg}			300		ns
Fall Time	t _f			30		ns

* : 2SB1122 is classified by 100mA h_{FE} as follows :

Rank	S	T
h _{FE}	140 to 280	200 to 400

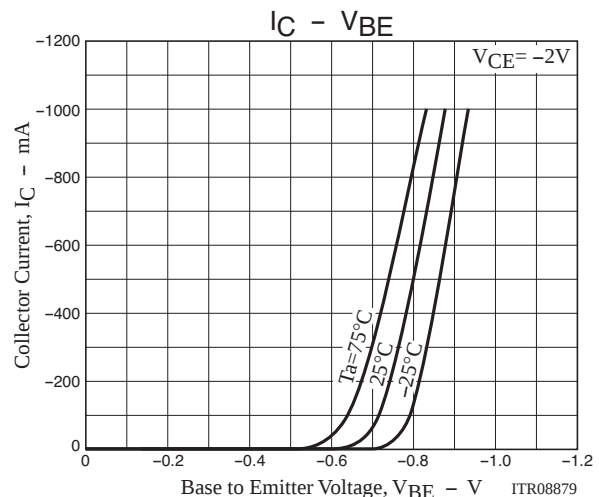
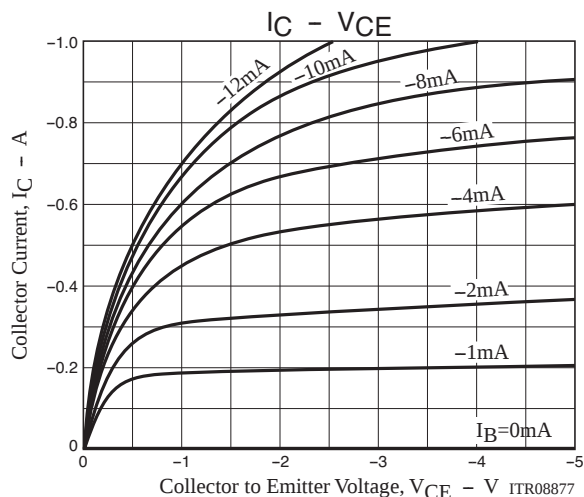
Switching Time Test Circuit

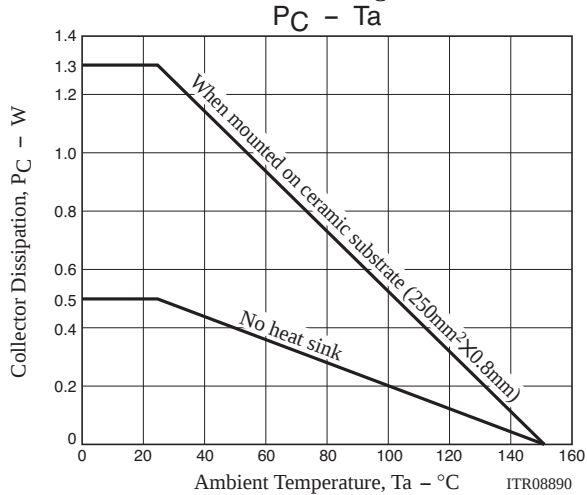
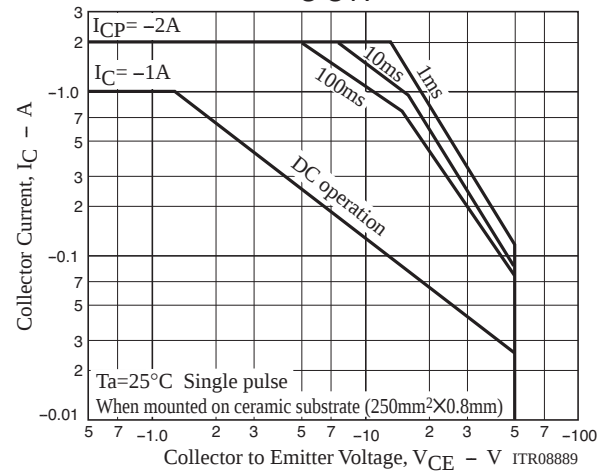
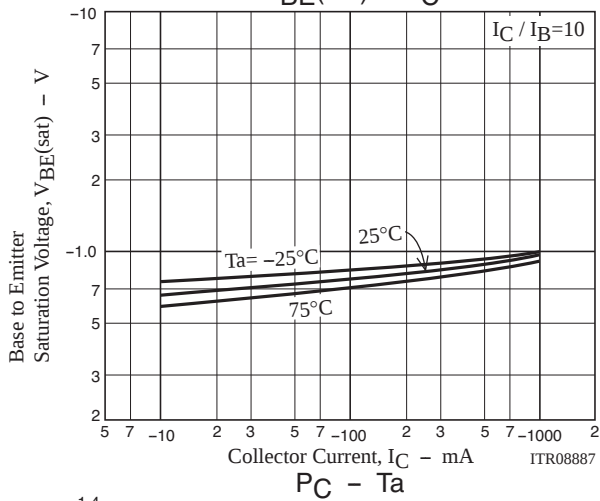
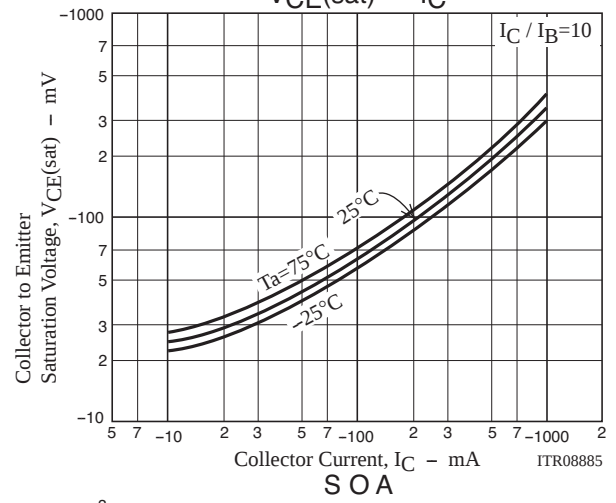
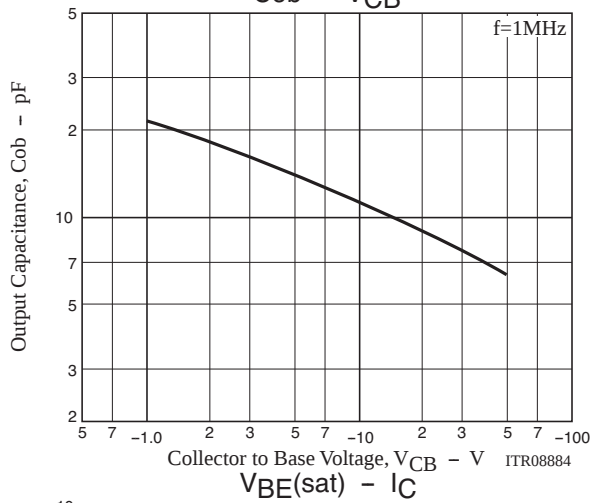
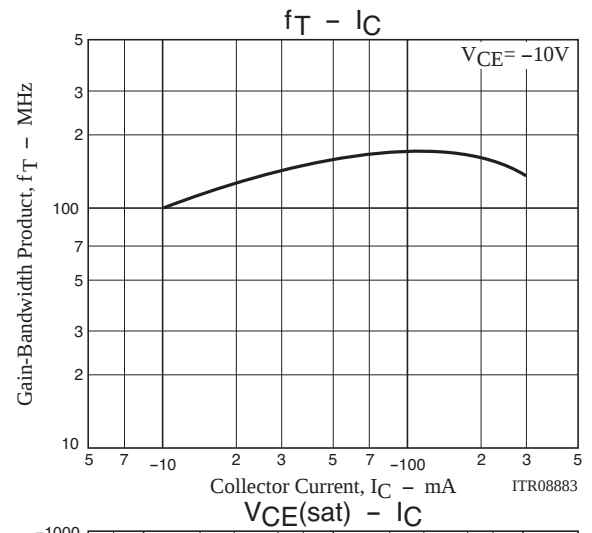
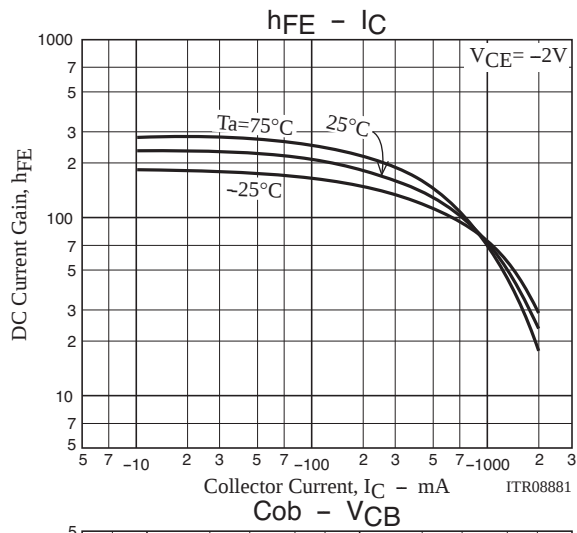


$$I_C = 10I_{B1} = -10I_{B2} = -500\text{mA}$$

Ordering Information

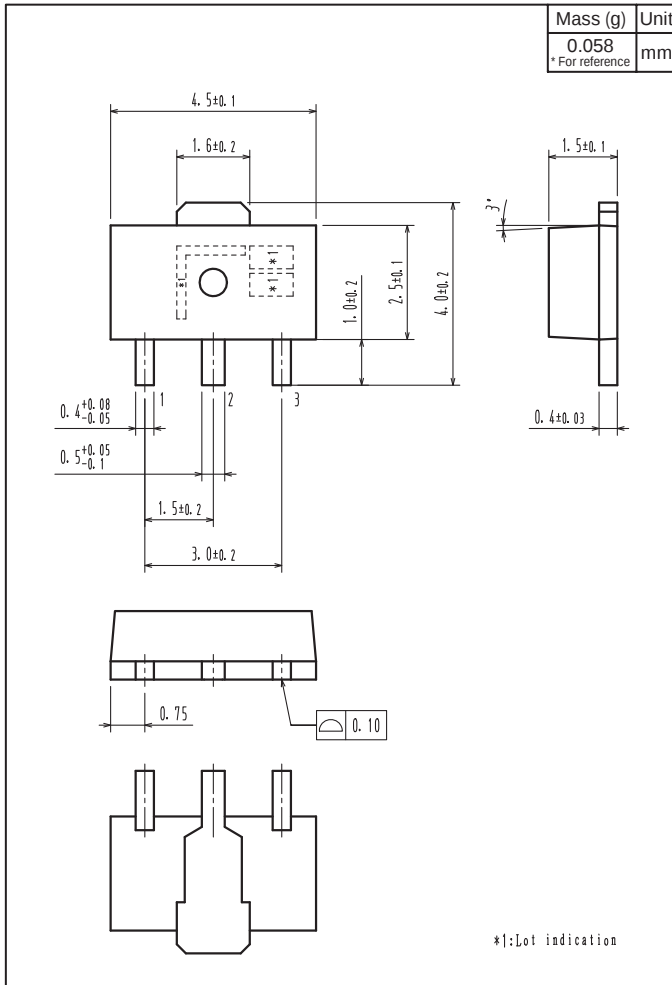
Device	Package	Shipping	memo
2SB1122S-TD-E	PCP	1,000pcs./reel	Pb Free
2SB1122T-TD-E	PCP	1,000pcs./reel	



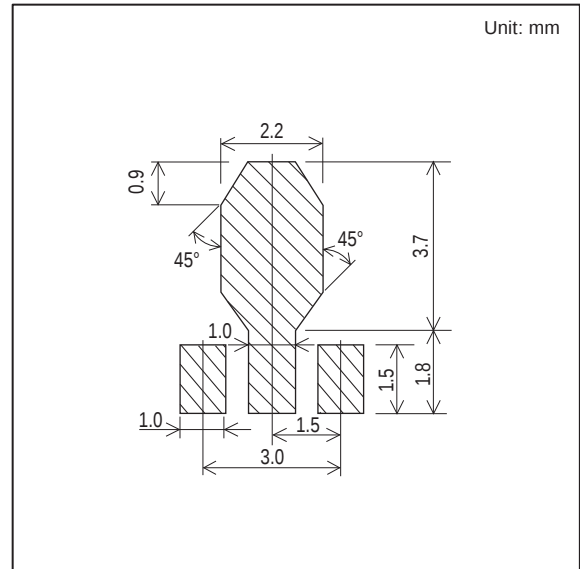


Outline Drawing

2SB1122S-TD-E, 2SB1122T-TD-E



Land Pattern Example



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