2SB1592

Silicon PNP epitaxial planar type

For low-frequency power amplification

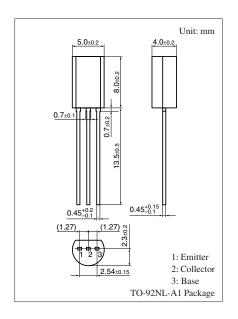
Features

- ullet Low collector-emitter saturation voltage $V_{CE(sat)}$
- Allowing supply with the radial taping

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	-30	V	
Collector-emitter voltage (Base open)	V _{CEO}	-25	V	
Emitter-base voltage (Collector open)	V_{EBO}	-11	V	
Collector current	I_C	-3	A	
Peak collector current	I_{CP}	-10	A	
Collector power dissipation	P _C	1.0	W	
Junction temperature	T_{j}	150	°C	
Storage temperature	T_{stg}	-55 to +150	°C	



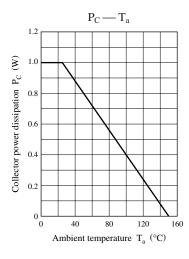


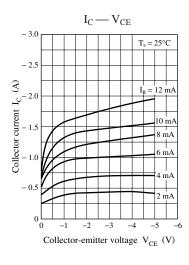
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

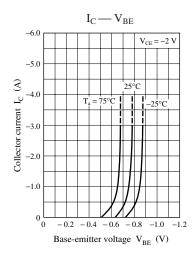
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_C = -10 \ \mu A, I_E = 0$	-30			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = -1 \text{ mA}, I_B = 0$	-25			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = -10 \ \mu A, \ I_C = 0$	-11			V
Forward current transfer ratio *	h _{FE}	$V_{CE} = -2 \text{ V}, I_C = -1.4 \text{ A}$	130		450	_
Collector-emitter saturation voltage *	V _{CE(sat)}	$I_C = -1.4 \text{ A}, I_B = -25 \text{ mA}$		- 0.16	- 0.22	V
Transition frequency	f_T	$V_{CB} = -6 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		150		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$			85	pF
(Common base, input open circuited)						

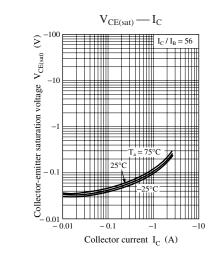
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

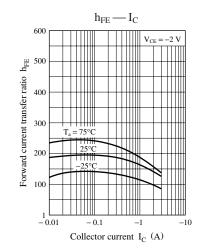
^{2. *:} Pulse measurement

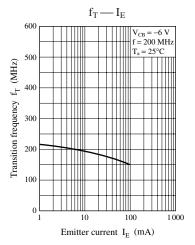


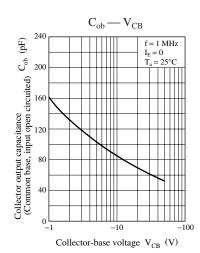












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