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)	$V_{\rm EBO}$	-11	V	
Collector current	I_{C}	-3	A	
Peak collector current	I_{CP}	-10	A	
Collector power dissipation	$P_{\rm C}$	1.0	W	
Junction temperature	T_{j}	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	



Unit: mm 4.0:0.2 0.45:0.1 (1.27) (1.28) (1.29) (

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	V _{ČBO}	$I_C = -10 \mu A, I_E = 0$	-30			V
Collector-emitter voltage (Base open)	V_{CEO}	$I_{\rm C} = -1 \text{ mA}, I_{\rm B} = 0$	-25			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 {\rm pA}, I_{\rm C} = 0$	-11			V
Forward current transfer ratio	h _{FE}	$V_{CE} = 2 V, I_C = -1.4 A$	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	$V_{CB} = -6 \text{ V}, I_{E} = 50 \text{ mA} \text{ f} = 200 \text{ MHz}$		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.

Publication date: March 2004 SJC00094BED 1

Panasonic



Cob (pF) 200 Collector output capacitance (Common base, input open circuited) 160 120 0 _1 Collector-base voltage V_{CB} (V)

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