2SB1592

Silicon PNP epitaxial planer type

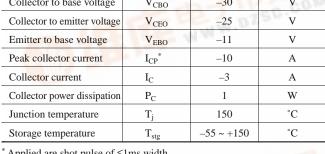
For low-frequency amplification

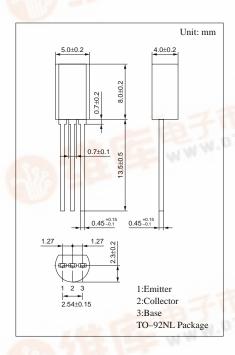
Features

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

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	-30	V
Collector to emitter voltage	V_{CEO}	-25	V
Emitter to base voltage	V _{EBO}	-11	V
Peak collector current	${ m I_{CP}}^*$	-10	A
Collector current	I_{C}	-3	A
Collector power dissipation	P_{C}	1	W
Junction temperature	T_{j}	150	°C
Storage temperature	T_{stg}	−55 ~ +150	°C





Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V _{CBO}	$I_{\rm C} = -10 \mu A, I_{\rm E} = 0$	-30			V
Collector to emitter voltage	V _{CEO}	$I_{C} = -1mA, I_{B} = 0$	-25			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = -10 \mu A, I_{\rm C} = 0$	-11			V
Forward current transfer ratio	h _{FE} *1	$V_{CE} = -2V, I_C = -1.4A^{*2}$	90		450	WW.
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = -1.4A, I_B = -25mA^{*2}$		-0.16	- 0.22	V
Transition frequency	f_T	$V_{CB} = -6V, I_E = 50 \text{mA}, f = 200 \text{MHz}$		150		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$			85	pF
	187	-75C.CU.		*2	² Pulse mea	surement
*1h _{FE} Rank classification						

^{*2} Pulse measurement

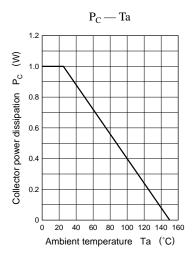
^{*1}h_{FE} Rank classification

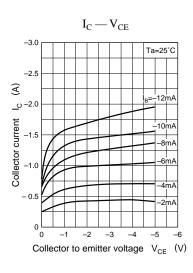
Rank	Q	R
$h_{ m FE}$	90 ~ 180	130 ~ 450

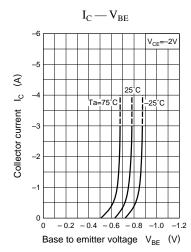


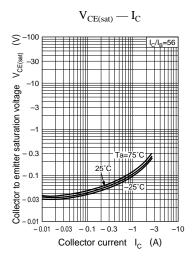
^{*} Applied are shot pulse of ≤1ms width

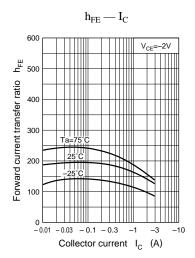
Transistor 2SB1592

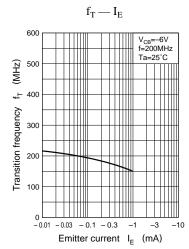


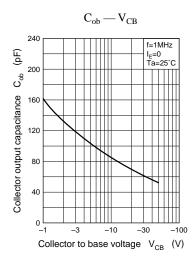












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