2SA1533

Silicon PNP epitaxial planer type

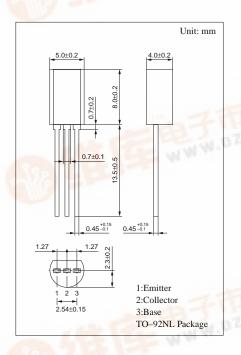
For low-frequency driver amplification Complementary to 2SC3939

Features

- High collector to emitter voltage V_{CEO}.
- Optimum for the driver stage of a low-frequency and 25 to 30W output amplifier.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	-80	v
Collector to emitter voltage	V _{CEO}	-80	V
Emitter to base voltage	V_{EBO}	-5	V
Peak collector current	I_{CP}	-1	A
Collector current	I_{C}	- 0.5	A
Collector power dissipation	P_{C}	1	W
Junction temperature	T_{j}	150	°C
Storage temperature	T_{stg}	−55 ~ +150	°C



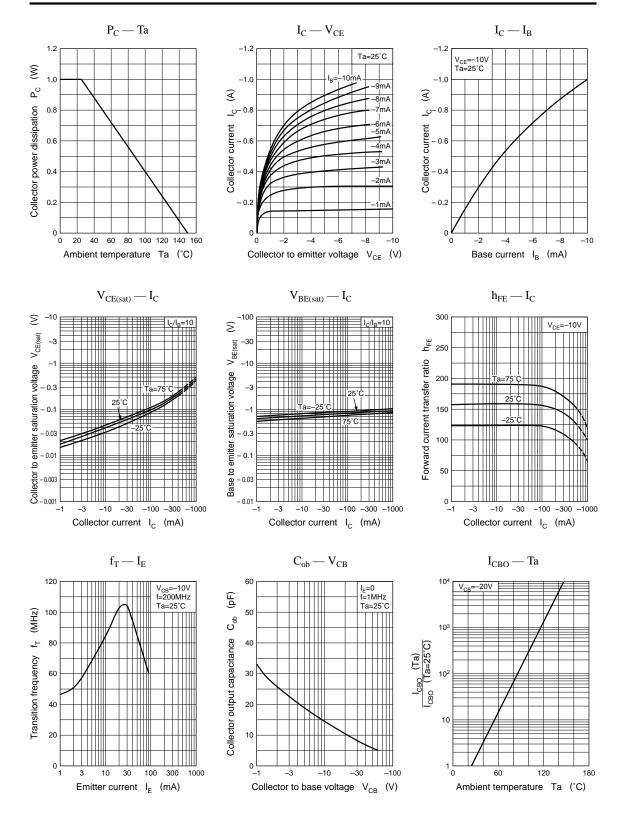
Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -20V, I_E = 0$			- 0.1	μА
Collector to base voltage	V _{CBO}	$I_{\rm C} = -10\mu A, I_{\rm E} = 0$	-80			V
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = -100 \mu A, I_{\rm B} = 0$	-80		111	V
Emitter to base voltage	V_{EBO}	$I_{\rm E} = -10\mu A, I_{\rm C} = 0$	-5		- TEE	V
Forward current transfer ratio	h _{FE1} *	$V_{CE} = -10V, I_{C} = -150mA$	90		220	
	h _{FE2}	$V_{CE} = -5V, I_{C} = -500 \text{mA}$	50	100		
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = -300 \text{mA}, I_B = -30 \text{mA}$		-0.2	- 0.4	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_C = -300 \text{mA}, I_B = -30 \text{mA}$		- 0.85	-1.2	V
Transition frequency	f_T	$V_{CB} = -10V$, $I_E = 50mA$, $f = 200MHz$		85		MHz
Collector output capacitance	Cob	$V_{CB} = -10V, I_E = 0, f = 1MHz$		11	20	pF

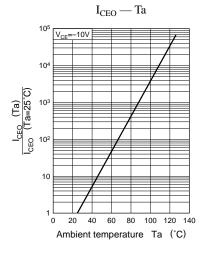
*h_{FE1} Rank classification

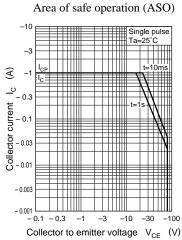
Rank	Q	R
h _{FE1}	90 ~ 155	130 ~ 220

Transistor 2SA1533



Transistor 2SA1533





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