# 2SA0720A (2SA720A)

# Silicon PNP epitaxial planer type

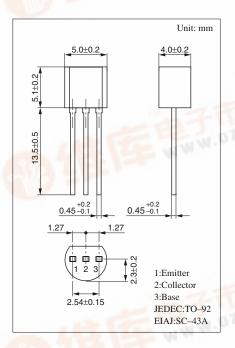
For low-frequency driver amplification Complementary to 2SC1318A

### Features

- High collector to emitter voltage V<sub>CEO</sub>.
- 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	$V_{CEO}$	<del>-7</del> 0	V
Emitter to base voltage	V <sub>EBO</sub>	-5	V
Peak collector current	$I_{CP}$	-1	A
Collector current	$I_{C}$	- 0.5	A
Collector power dissipation	P <sub>C</sub>	625	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	$T_{stg}$	<b>−55 ~ +150</b>	°C



### Electrical Characteristics (Ta=25°C)

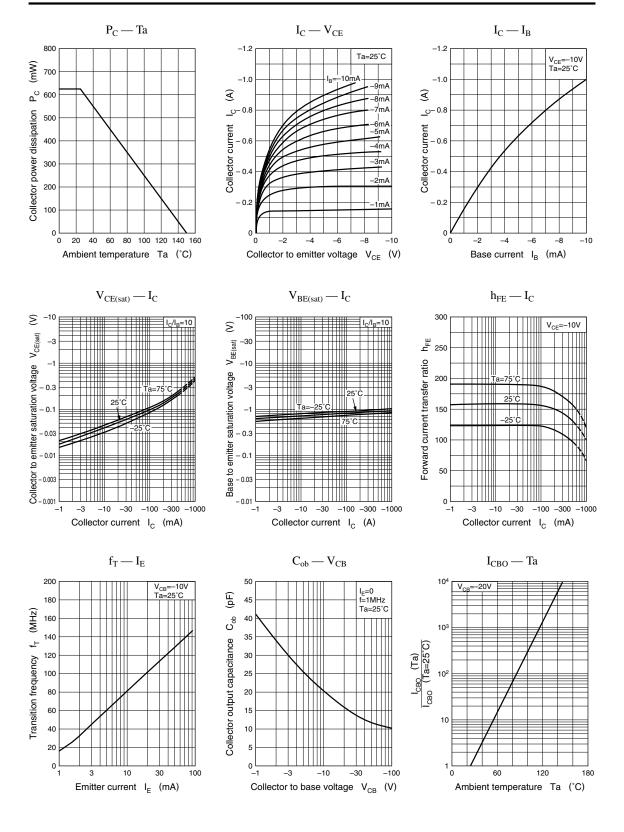
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = -20V, I_E = 0$			- 0.1	μΑ
Collector to base voltage	V <sub>CBO</sub>	$I_C = -10\mu A, I_E = 0$	-80			V
Collector to emitter voltage	V <sub>CEO</sub>	$I_{\rm C} = -2mA, I_{\rm B} = 0$	-70			V
Emitter to base voltage	V <sub>EBO</sub>	$I_{\rm E} = -10\mu A, I_{\rm C} = 0$	-5			V
Forward current transfer ratio	h <sub>FE1</sub> *1	$V_{CE} = -10V, I_{C} = -150 \text{mA}^{*2}$	85		240	LW.
	h <sub>FE2</sub>	$V_{CE} = -10V, I_{C} = -500 \text{mA}^{*2}$	40			
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = -300 \text{mA}, I_B = -30 \text{mA}^{*2}$		-0.2	- 0.6	V
Base to emitter saturation voltage	V <sub>BE(sat)</sub>	$I_C = -300 \text{mA}, I_B = -30 \text{mA}^{*2}$		- 0.85	-1.5	V
Transition frequency	$f_T$	$V_{CB} = -10V$ , $I_E = 50$ mA, $f = 100$ MHz		120		MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB} = -10V, I_E = 0, f = 1MHz$		20	30	pF

<sup>\*2</sup> Pulse measurement

\*1h<sub>FE1</sub> Rank classification

Rank	Q	R
h <sub>FE1</sub>	85 ~ 170	120 ~ 240

Transistor 2SA0720A



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