

2SA0720A (2SA720A)

Silicon PNP epitaxial planer type

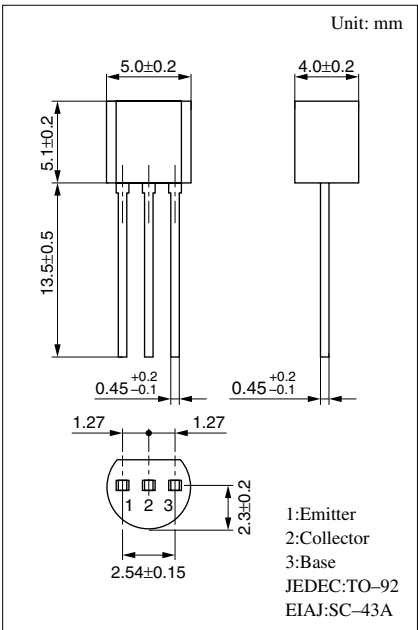
For low-frequency driver amplification
Complementary to 2SC1318A

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}	-70	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	625	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C



Electrical Characteristics (Ta=25°C)

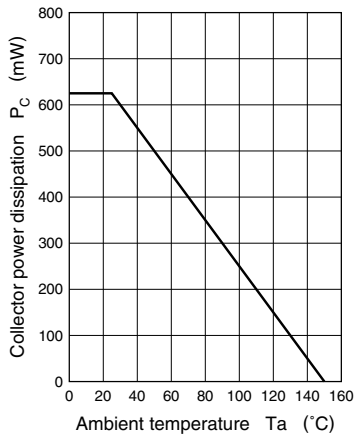
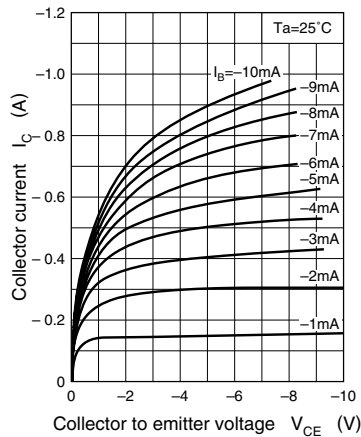
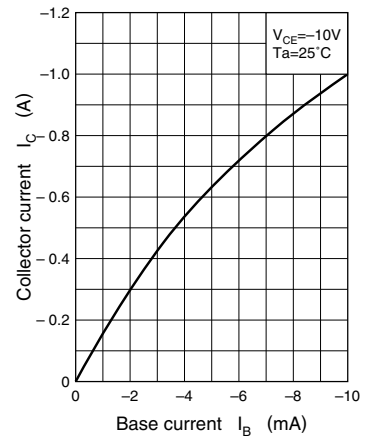
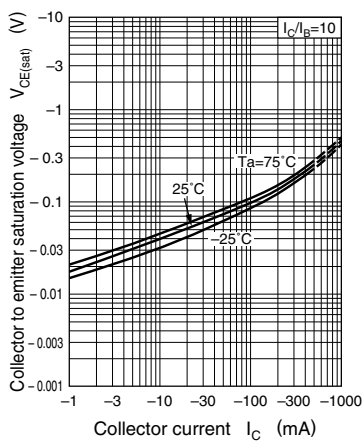
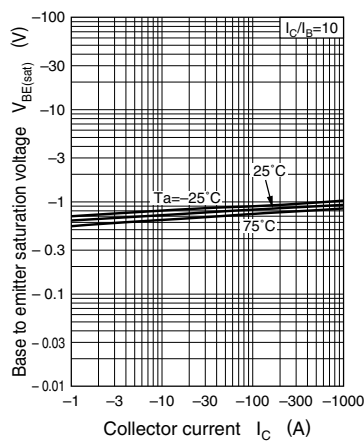
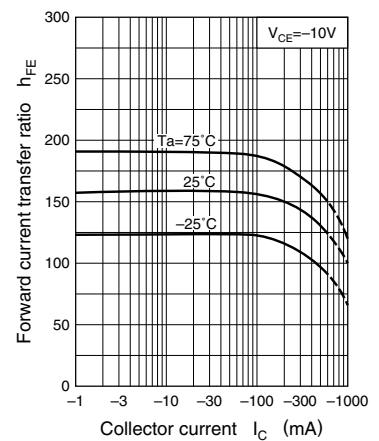
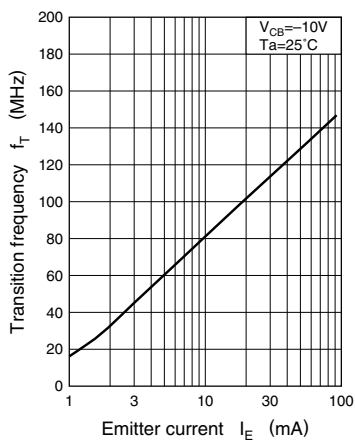
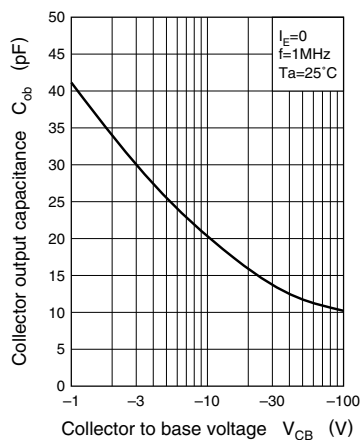
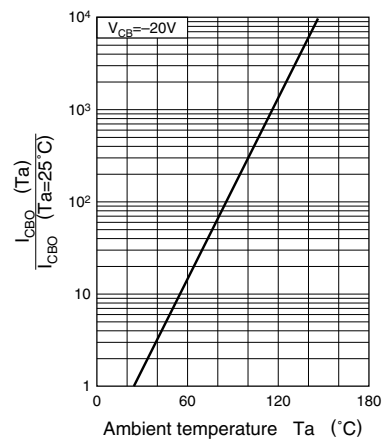
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -20V, I_E = 0$			-0.1	μA
Collector to base voltage	V_{CBO}	$I_C = -10\mu A, I_E = 0$	-80			V
Collector to emitter voltage	V_{CEO}	$I_C = -2mA, I_B = 0$	-70			V
Emitter to base voltage	V_{EBO}	$I_E = -10\mu A, I_C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

^{*2} Pulse measurement

^{*1} h_{FE1} Rank classification

Rank	Q	R
h_{FE1}	85 ~ 170	120 ~ 240

Note.) The Part number in the Parenthesis shows conventional part number.

$P_C - T_a$  $I_C - V_{CE}$  $I_C - I_B$  $V_{CE(sat)} - I_C$  $V_{BE(sat)} - I_C$  $h_{FE} - I_C$  $f_T - I_E$  $C_{ob} - V_{CB}$  $I_{CBO} - T_a$ 

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