2SA0921 (2SA921)

Silicon PNP epitaxial planer type

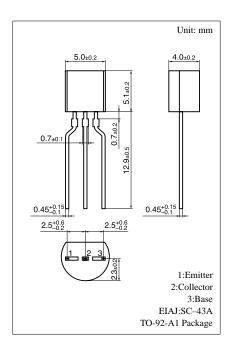
For high breakdown voltage low-noise amplification Complementary to 2SC1980

Features

- High collector to emitter voltage V_{CEO}.
- Low noise voltage NV.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	-120	V
Collector to emitter voltage	V_{CEO}	-120	V
Emitter to base voltage	V_{EBO}	-5	V
Peak collector current	I_{CP}	-50	mA
Collector current	I_{C}	-20	mA
Collector power dissipation	P_{C}	250	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}	$V_{CB} = -50V, I_{E} = 0$			-100	nA
	I _{CEO}	$V_{CE} = -50V, I_B = 0$			-1	μΑ
Collector to base voltage	V _{CBO}	$I_{\rm C} = -10 \mu {\rm A}, \ I_{\rm E} = 0$	-120			V
Collector to emitter voltage	V _{CEO}	$I_{C} = -1 \text{mA}, I_{B} = 0$	-120			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = -10 \mu A, I_{\rm C} = 0$	-5			V
Forward current transfer ratio	h _{FE} *	$V_{CE} = -5V, I_{C} = -2mA$	180		520	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = -20 \text{mA}, I_B = -2 \text{mA}$			- 0.6	V
Transition frequency	f_T	$V_{CB} = -5V$, $I_E = 2mA$, $f = 200MHz$		200		MHz
Noise voltage	NV	$V_{CE} = -40V, I_{C} = -1mA, G_{V} = 80dB$			150	mV
		$R_g = 100k\Omega$, Function FLAT		130		III V

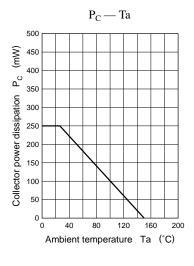
*h_{FE} Rank classification

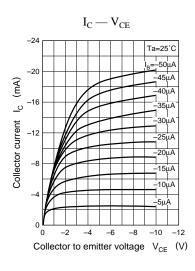
Rank	R	S
h_{FE}	180 ~ 360	260 ~ 520

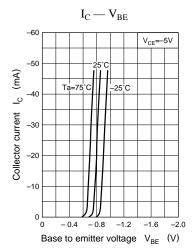
Note.) The Part number in the Parenthesis shows conventional part number.

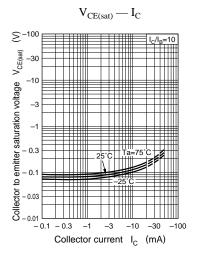
Panasonic 95

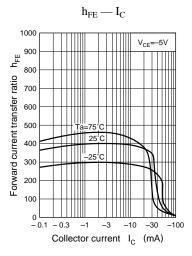
Transistor 2SA0921

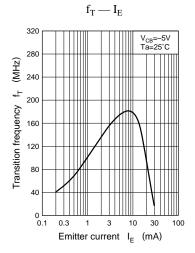


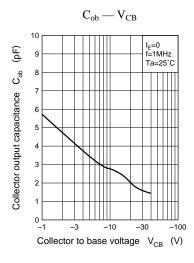


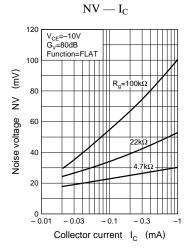












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