# 2SC2925

### Silicon NPN epitaxial planer type

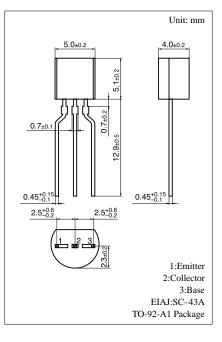
For low-frequency output amplification

#### Features

- High foward current transfer ratio h<sub>FE</sub>.
- Low collector to emitter saturation voltage V<sub>CE(sat)</sub>.

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V <sub>CBO</sub>	60	V
Collector to emitter voltage	V <sub>CEO</sub>	50	V
Emitter to base voltage	V <sub>EBO</sub>	15	V
Peak collector current	I <sub>CP</sub>	1.5	А
Collector current	I <sub>C</sub>	0.7	А
Collector power dissipation	P <sub>C</sub>	750	mW
Junction temperature	Tj	150	°C
Storage temperature	T <sub>stg</sub>	-55 ~ +150	°C

### Absolute Maximum Ratings (Ta=25°C)

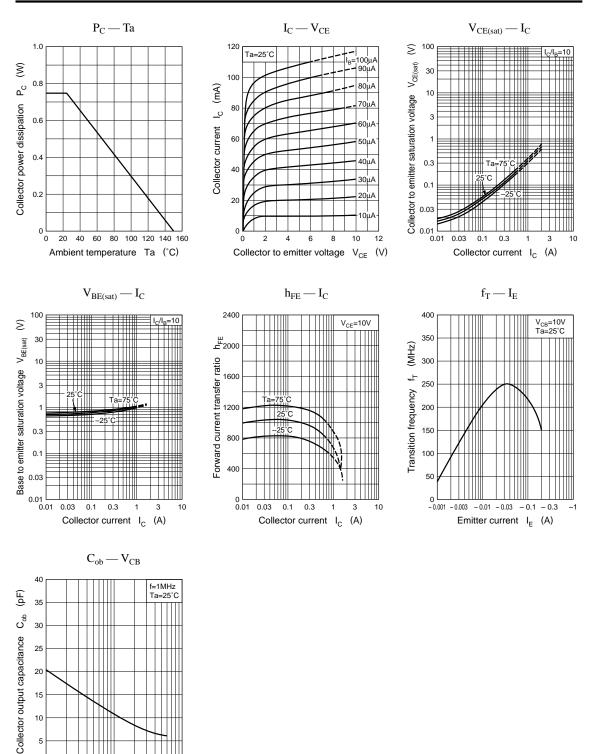


#### Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I <sub>CBO</sub>	$V_{CB} = 20V, I_E = 0$			1	μΑ
	I <sub>CEO</sub>	$V_{CE} = 20V, I_B = 0$			10	μΑ
Collector to base voltage	V <sub>CBO</sub>	$I_{\rm C} = 10 \mu A, I_{\rm E} = 0$	60			V
Collector to emitter voltage	V <sub>CEO</sub>	$I_C = 1 \text{mA}, I_B = 0$	50			V
Emitter to base voltage	V <sub>EBO</sub>	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	15			V
Forward current transfer ratio	h <sub>FE</sub> *	$V_{CE} = 10V, I_C = 150mA$	400	1000	2000	
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	$I_{\rm C} = 500 {\rm mA}, I_{\rm B} = 50 {\rm mA}$		0.15	0.4	V
Transition frequency	f <sub>T</sub>	$V_{CB} = 10V, I_E = -10mA, f = 200MHz$		200		MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB} = 10V, I_E = 0, f = 1MHz$		11	15	pF

#### \*hFE Rank classification

Rank	R	S	Т
$\mathbf{h}_{\mathrm{FE}}$	400 ~ 800	600 ~ 1200	1000 ~ 2000



Collector to base voltage  $V_{CB}$  (V)

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