# 2SC3929, 2SC3929A

## Silicon NPN epitaxial planar type

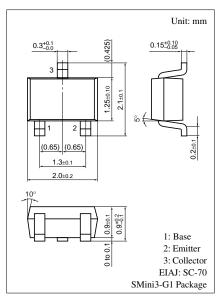
For low-frequency output amplification
Complementary to 2SA1531 and 2SA1531A

#### ■ Features

- Low noise voltage NV
- High forward current transfer ratio h<sub>FE</sub>
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter		Symbol	Rating	Unit
Collector to	2SC3929	$V_{CBO}$	35	V
base voltage	2SC3929A		55	
Collector to	2SC3929	V <sub>CEO</sub>	35	V
emitter voltage	2SC3929A		55	
Emitter to base voltage		$V_{EBO}$	5	V
Peak collector current		$I_{CP}$	100	mA
Collector current		$I_{C}$	50	mA
Collector power dissipation		$P_{C}$	150	mW
Junction temperature		T <sub>j</sub>	150	°C
Storage temperature		$T_{stg}$	-55 to +150	°C



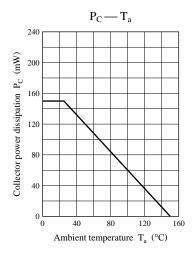
Marking symbol: S (2SC3929) T (2SC3929A)

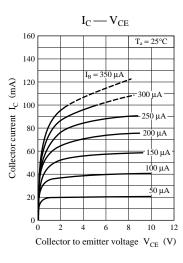
### ■ Electrical Characteristics $T_a = 25$ °C

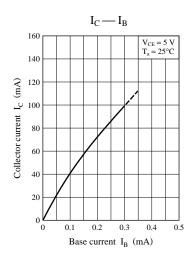
Paramete	r	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff curren	nt	$I_{CBO}$	$V_{CB} = 10 \text{ V}, I_E = 0$			100	nA
		$I_{CEO}$	$V_{CE} = 10 \text{ V}, I_B = 0$			1	μΑ
Collector to base	2SC3929	$V_{CBO}$	$I_{\rm C} = 10 \; \mu {\rm A}, \; I_{\rm E} = 0$	35			V
voltage	2SC3929A			55			
Collector to emitter	2SC3929	V <sub>CEO</sub>	$I_{\rm C} = 2 \text{ mA}, I_{\rm B} = 0$	35			V
voltage	2SC3929A			55			
Emitter to base voltage	ge	$V_{EBO}$	$I_E = 10 \ \mu A, I_C = 0$	5			V
Forward current transf	er ratio *	h <sub>FE</sub>	$V_{CE} = 5 \text{ V}, I_C = 2 \text{ mA}$	180		700	
Collector to emitter satur	ation voltage	V <sub>CE(sat)</sub>	$I_{\rm C} = 100 \text{ mA}, I_{\rm B} = 10 \text{ mA}$			0.6	V
Base to emitter voltag	e	$V_{BE}$	$V_{CE} = 1 \text{ V}, I_{C} = 100 \text{ mA}$		0.7	1	V
Noise voltage		NV	$V_{CE} = 10 \text{ V}, I_{C} = 1 \text{ mA}, G_{V} = 80 \text{ dB}$			150	mV
			$R_g = 100 \text{ k}\Omega$ , Function = FLAT				
Transition frequency		$f_T$	$V_{CB} = 5 \text{ V}, I_E = -2 \text{ mA}, f = 200 \text{ MHz}$		80		MHz

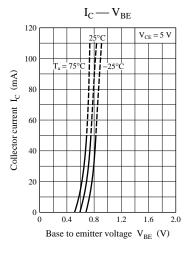
Note) \*: hFE Rank classification

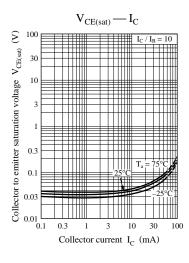
Rank		R	S	Т	
$h_{FE}$		180 to 360	260 to 520	360 to 700	
Marking	2SC3929	SR	SS	ST	
symbol	2SC3929A	TR	TS	TT	

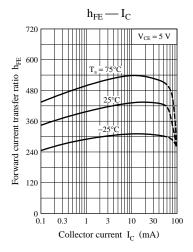


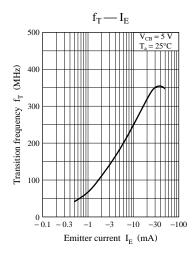


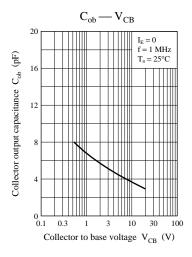


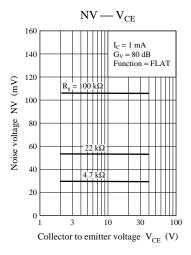


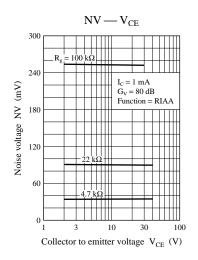


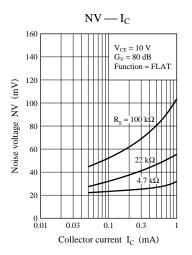


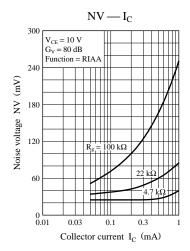


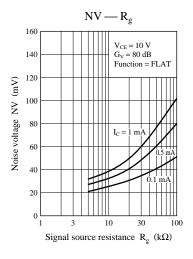


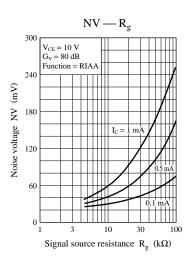












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