2SC3929, 2SC3929A

Silicon NPN epitaxial planar type

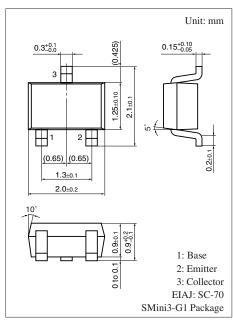
For low-frequency output amplification Complementary to 2SA1531 and 2SA1531A

■ Features

- Low noise voltage NV
- High forward current transfer ratio h_{FE}
- 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-base voltage	2SC3929	V _{CBO}	35	V
(Emitter open)	2SC3929A		55	
Collector-emitter voltage	2SC3929	V _{CEO}	35	V
(Base open)	2SC3929A		55	
Emitter-base voltage (Coll	V _{EBO}	5	V	
Collector current	I_C	50	mA	
Peak collector current	I_{CP}	100	mA	
Collector power dissipation	P _C	150	mW	
Junction temperature	T_{j}	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	



Marking Symbol:

2SC3929: S2SC3929A: T

■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

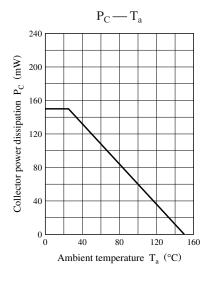
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage	2SC3929	V _{CBO}	$I_C = 10 \ \mu A, I_E = 0$	35			V
(Emitter open)	2SC3929A			55			
Collector-emitter voltage	2SC3929	V _{CEO}	$I_{\rm C} = 2 \text{ mA}, I_{\rm B} = 0$	35			V
(Base open)	2SC3929A			55			
Emitter-base voltage (Collector open)		V_{EBO}	$I_E = 10 \ \mu A, I_C = 0$	5			V
Base-emitter voltage		V_{BE}	$V_{CE} = 1 \text{ V}, I_{C} = 100 \text{ mA}$		0.7	1.0	V
Collector-base cutoff current (Emitter open)		I_{CBO}	$V_{CB} = 10 \text{ V}, I_{E} = 0$			0.1	μA
Collector-emitter cutoff current (Base open)		I _{CEO}	$V_{CE} = 10 \text{ V}, I_{B} = 0$			1	μA
Forward current transfer ratio *		h_{FE}	$V_{CE} = 5 \text{ V}, I_C = 2 \text{ mA}$	180		700	_
Collector-emitter saturation voltage		V _{CE(sat)}	$I_C = 100 \text{ mA}, I_B = 10 \text{ mA}$			0.6	V
Transition frequency		f_T	$V_{CB} = 5 \text{ V}, I_E = -2 \text{ mA}, f = 200 \text{ MHz}$ 100		100		MHz
Noise voltage		NV	$V_{CE} = 10 \text{ V}, I_{C} = 1 \text{ mA}, G_{V} = 80 \text{ dB}$ $R_g = 100 \text{ k}\Omega$, Function = FLAT			150	mV

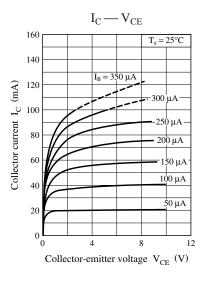
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

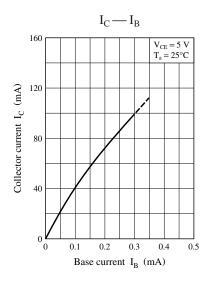
2. *: Rank classification

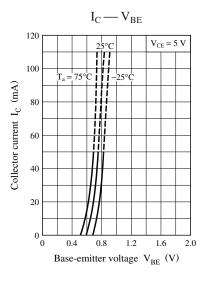
Rank		R	S	Т	
h	FE	180 to 360	260 to 520	360 to 700	
Marking	2SC3929	SR	SS	ST	
symbol	2SC3929A	TR	TS	TT	

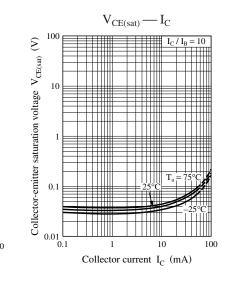
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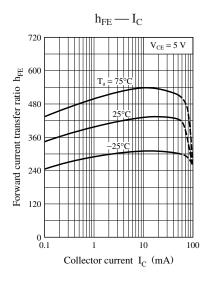


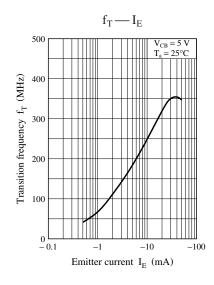


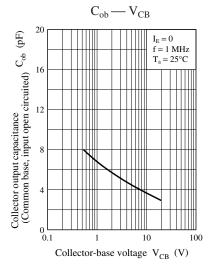


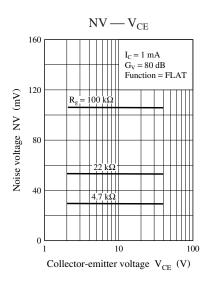






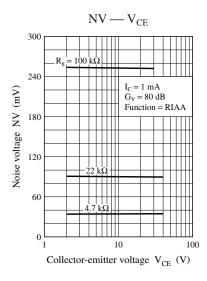


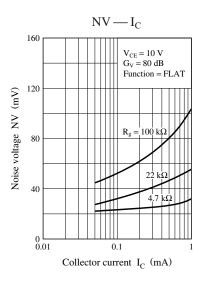


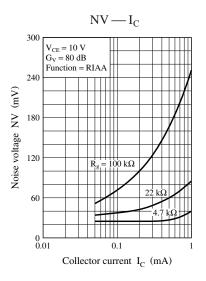


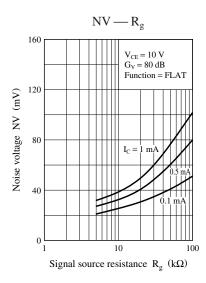
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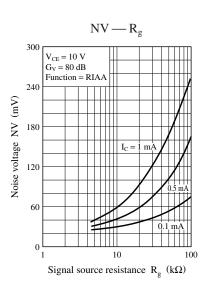
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