2SC3929, 2SC3929A

Silicon NPN epitaxial planer type

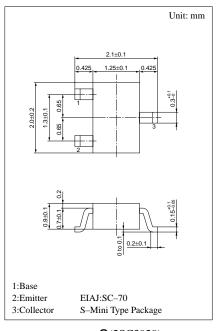
For low-frequency output amplification Complementary to 2SA1531 and 2SA1531A

Features

- Low noise voltage NV.
- High foward current transfer ratio h_{FE}.
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

Absolute Maximum Ratings (Ta=25°C)

Parameter		Symbol	Ratings	Unit	
Collector to	2SC3929	V	35	V	
base voltage	2SC3929A	V_{CBO}	55	V	
Collector to	2SC3929	37	35	V	
emitter voltage	2SC3929A	V_{CEO}	55	V	
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_{j}	150	°C	
Storage temperature		T_{stg}	−55 ~ +150	°C	



 $\begin{array}{c} \text{Marking symbol}: & S(2SC3929) \\ & T(2SC3929A) \end{array}$

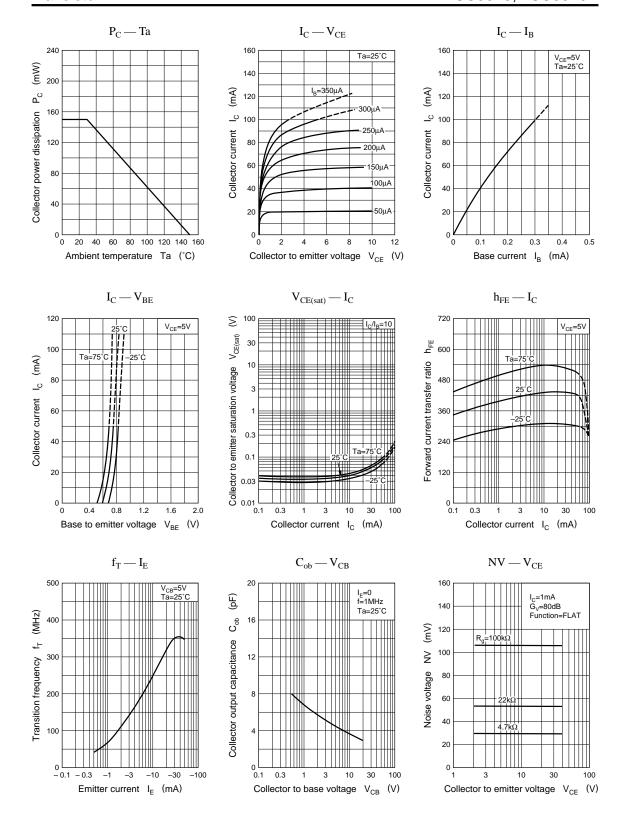
Electrical Characteristics (Ta=25°C)

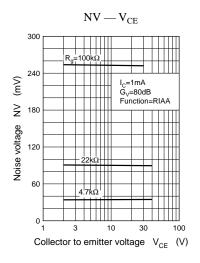
Paramete	er	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current		I_{CBO}	$V_{CB} = 10V, I_{E} = 0$			100	nA
		I_{CEO}	$V_{CE} = 10V, I_{B} = 0$			1	μΑ
Collector to base	2SC3929		I 100A I 0	35			v
voltage	2SC3929A	V_{CBO}	$I_{\rm C} = 10 \mu A, I_{\rm E} = 0$	55			
Collector to emitter	2SC3929	T.,		35			V
voltage	2SC3929A	V_{CEO}	$I_{C} = 2mA, I_{B} = 0$	55			
Emitter to base voltage		V _{EBO}	$I_E = 10 \mu A, I_C = 0$	5			V
Forward current transfer ratio ${\bf h_{FE}}^*$		h _{FE} *	$V_{CE} = 5V, I_C = 2mA$	180		700	
Collector to emitter saturation voltage $V_{CE(sat)}$ $I_C = 100 \text{mA}, I_B = 10 \text{mA}$				0.6	V		
		V _{BE}	$V_{CE} = 1V, I_{C} = 100mA$		0.7	1	V
Noise voltage		NV	$V_{CE} = 10V, I_{C} = 1mA, G_{V} = 80dB$			150	mV
			$R_g = 100k\Omega$, Function = FLAT		150		
Transition frequency		f_{T}	$V_{CB} = 5V, I_E = -2mA, f = 200MHz$		80		MHz

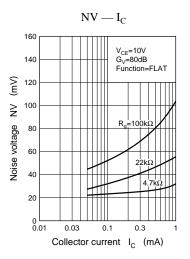
^{*1}h_{FE1} Rank classification

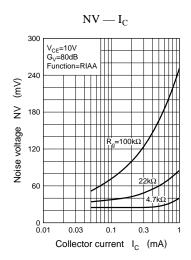
Rank		R	S	T	
h_{FE}		180 ~ 360	260 ~ 520	360 ~ 700	
Marking	2SC3929	SR	SS	ST	
Symbol	2SC3929A	TR	TS	TT	

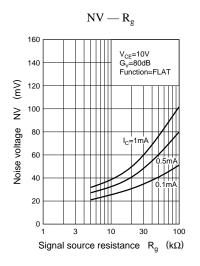
2

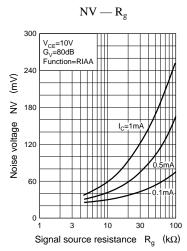












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