



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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2SC3929, 2SC3929A

Silicon NPN epitaxial planer 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 and the magazine packing.

Absolute Maximum Ratings (Ta=25°C)

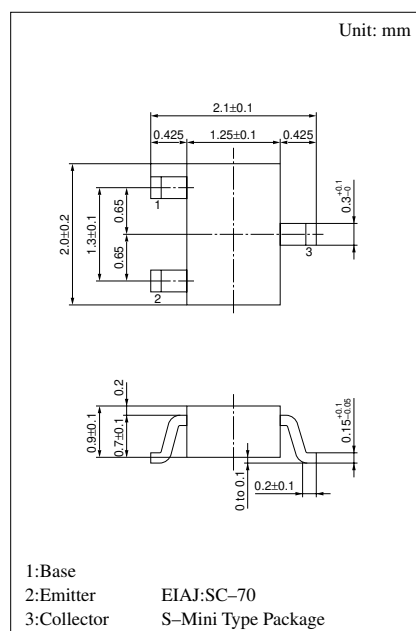
Parameter	Symbol	Ratings	Unit
Collector to base voltage	2SC3929	35	V
	2SC3929A	55	
Collector to emitter voltage	2SC3929	35	V
	2SC3929A	55	
Emitter to base voltage	V_{EBO}	5	V
Peak collector current	I_{CP}	100	mA
Collector current	I_C	50	mA
Collector power dissipation	P_C	150	mW
Junction temperature	T_j	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}	$V_{CB} = 10V, I_E = 0$			100	nA
	I_{CEO}	$V_{CE} = 10V, I_B = 0$			1	μA
Collector to base voltage	V_{CBO}	$I_C = 10\mu A, I_E = 0$	35			V
			55			
Collector to emitter voltage	V_{CEO}	$I_C = 2mA, I_B = 0$	35			V
			55			
Emitter to base voltage	V_{EBO}	$I_E = 10\mu A, I_C = 0$	5			V
Forward current transfer ratio	h_{FE}^*	$V_{CE} = 5V, I_C = 2mA$	180		700	
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = 100mA, I_B = 10mA$			0.6	V
Base to emitter voltage	V_{BE}	$V_{CE} = 1V, I_C = 100mA$		0.7	1	V
Noise voltage	NV	$V_{CE} = 10V, I_C = 1mA, G_V = 80dB$ $R_g = 100k\Omega, \text{Function} = \text{FLAT}$			150	mV
Transition frequency	f_T	$V_{CB} = 5V, I_E = -2mA, f = 200MHz$		80		MHz

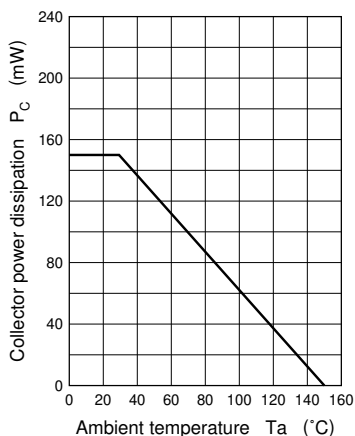
*1 h_{FE1} Rank classification

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

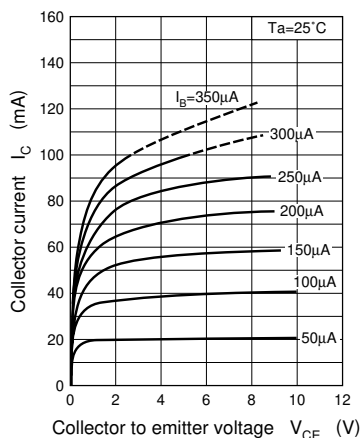


Marking symbol : S(2SC3929)
T(2SC3929A)

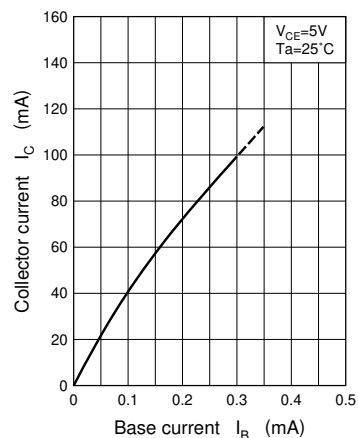
$P_C - T_a$



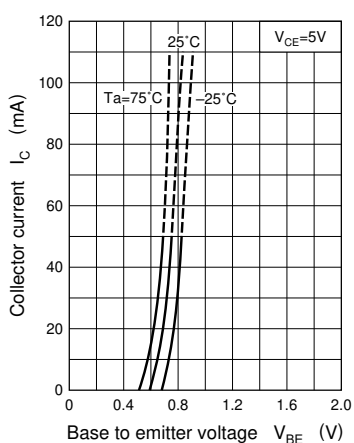
$I_C - V_{CE}$



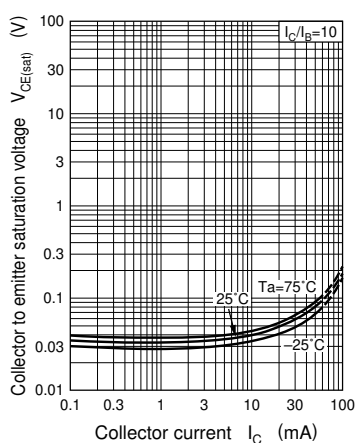
$I_C - I_B$



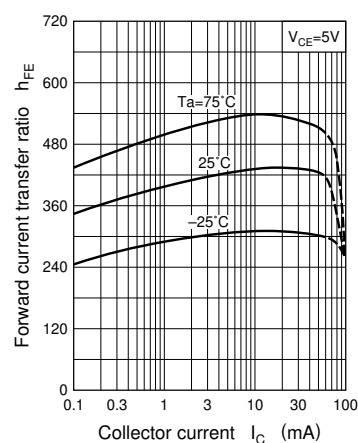
$I_C - V_{BE}$



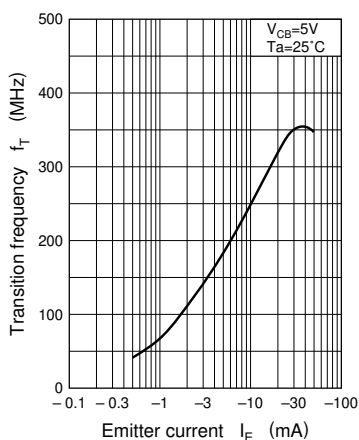
$V_{CE(sat)} - I_C$



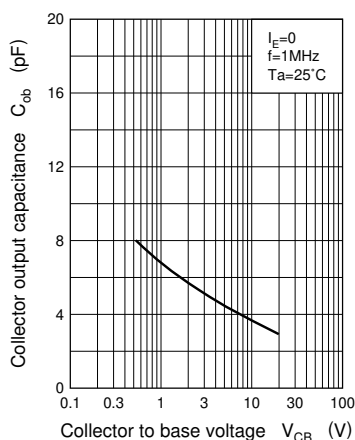
$h_{FE} - I_C$



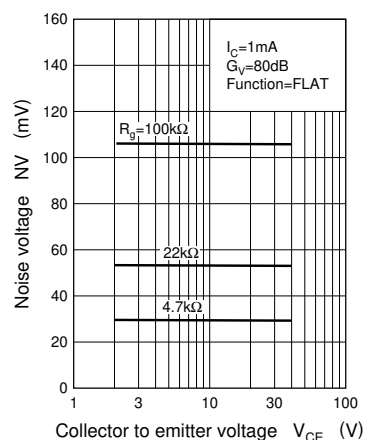
$f_T - I_E$

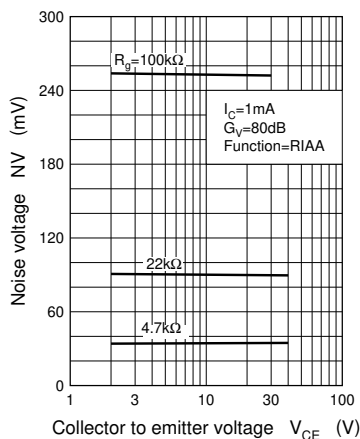
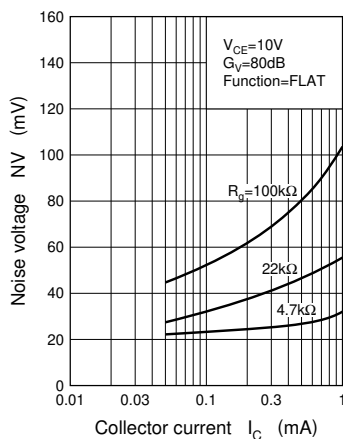
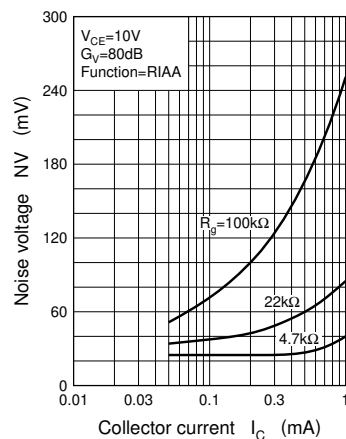
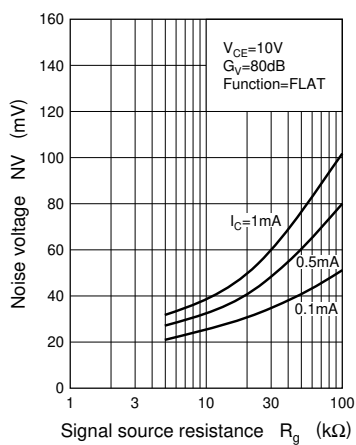


$C_{ob} - V_{CB}$



$NV - V_{CE}$



NV — V_{CE} NV — I_C NV — I_C NV — R_g NV — R_g 