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Transistor



2SC3929, 2SC3929A

Silicon NPN epitaxial planer type

For low-frequency output amplification

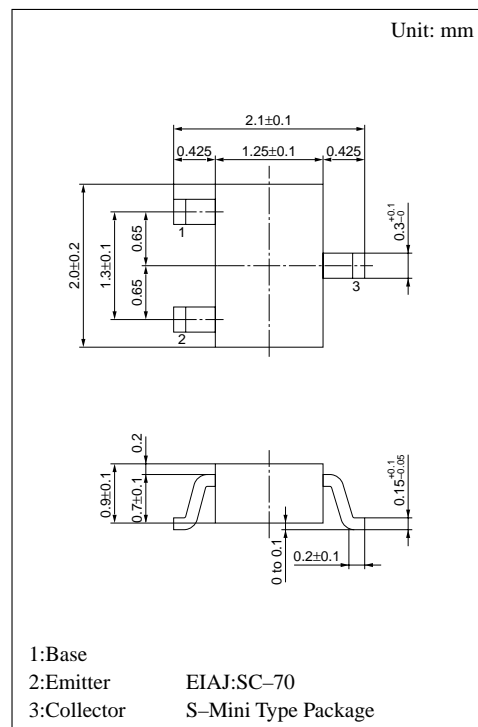
Complementary to 2SA1531 and 2SA1531A

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



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

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

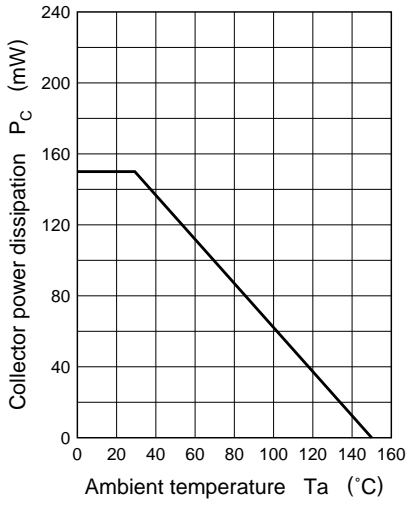
* h_{FE1} Rank classification

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

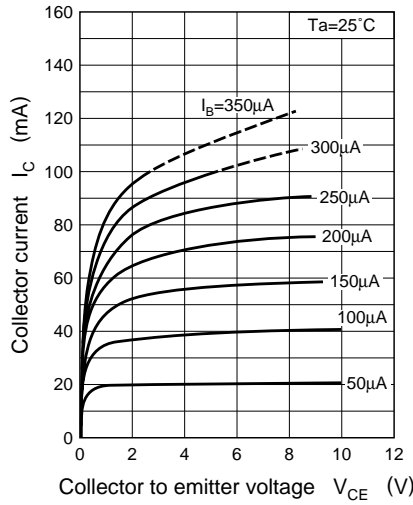
Transistor

2SC3929, 2SC3929A

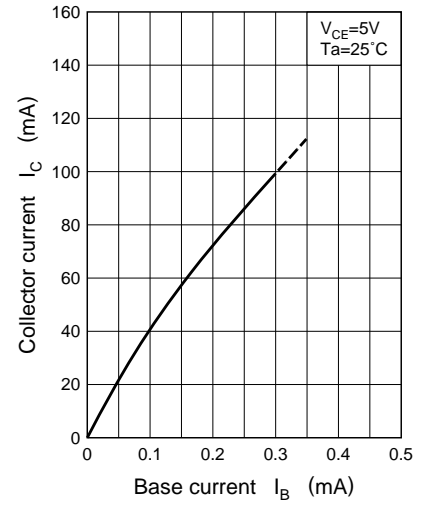
$P_C - T_a$



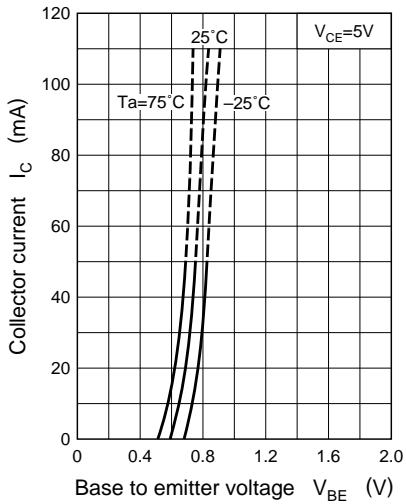
$I_C - V_{CE}$



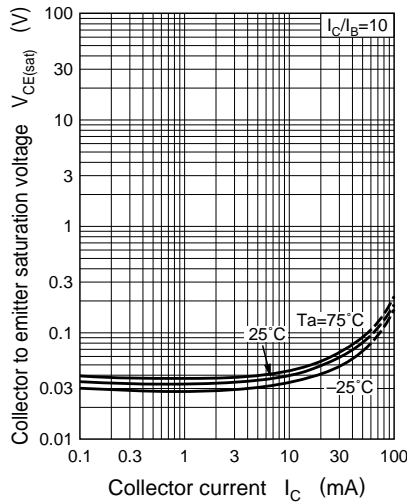
$I_C - I_B$



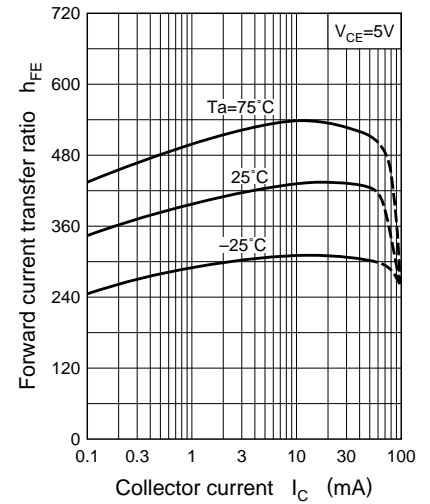
$I_C - V_{BE}$



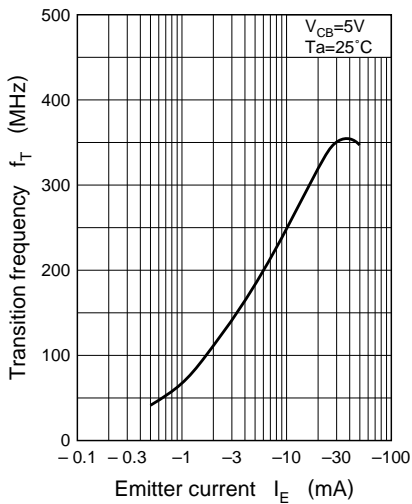
$V_{CE(sat)} - I_C$



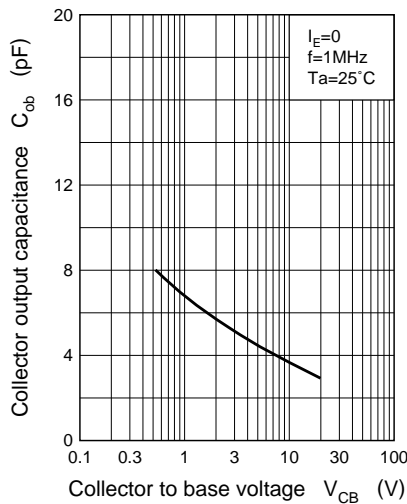
$h_{FE} - I_C$



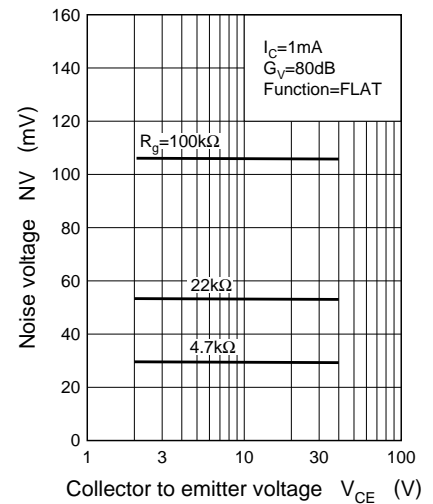
$f_T - I_E$



$C_{ob} - V_{CB}$



$NV - V_{CE}$



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