2SC3931

Silicon NPN epitaxial planer type

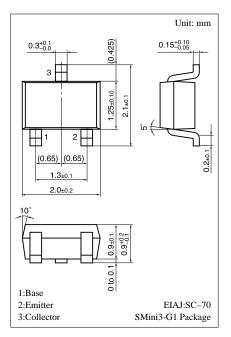
For high-frequency amplification

Features

- Optimum for RF amplification of FM/AM radios.
- High transition frequency f_T.
- 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	V_{CBO}	30	V
Collector to emitter voltage	V_{CEO}	20	V
Emitter to base voltage	$V_{\rm EBO}$	3	V
Collector current	I_{C}	15	mA
Collector power dissipation	P_{C}	150	mW
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C



Marking symbol: U

Electrical Characteristics (Ta=25°C)

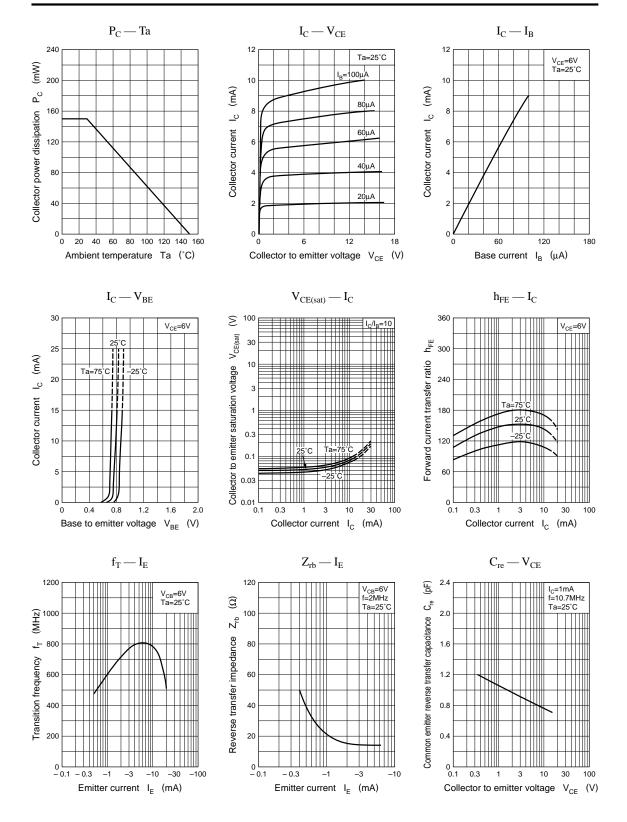
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V _{CBO}	$I_{\rm C} = 10\mu{\rm A},I_{\rm E} = 0$	30			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	3			V
Forward current transfer ratio	h _{FE} *	$V_{CB} = 6V, I_{E} = -1mA$	65		260	
Base to emitter voltage	V _{BE}	$V_{CB} = 6V, I_E = 1mA$		0.72		V
Transition frequency	f_T	$V_{CB} = 6V, I_E = -1mA, f = 200MHz$	450	650		MHz
Common emitter reverse transfer capacitance	C _{re}	$V_{CE} = 6V, I_{C} = 1mA, f = 10.7MHz$		0.8	1	pF
Power gain	PG	$V_{CB} = 6V, I_E = -1mA, f = 100MHz$		24		dB
Noise figure	NF	$V_{CB} = 6V, I_E = -1mA, f = 100MHz$		3.3		dB

*h_{FE} Rank classification

Rank	С	D		
h _{FE}	65 ~ 160	100 ~ 260		
Marking Symbol	UC	UD		

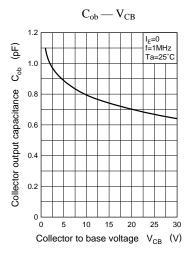
422 Panasonic

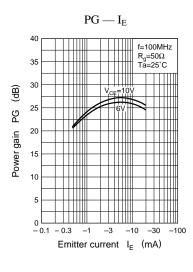
Transistor 2SC3931

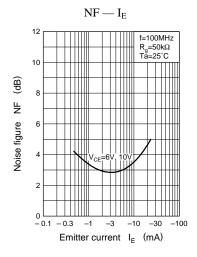


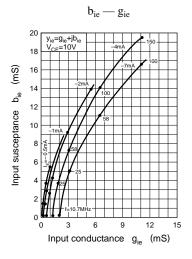
Panasonic 423

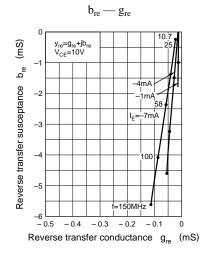
Transistor 2SC3931

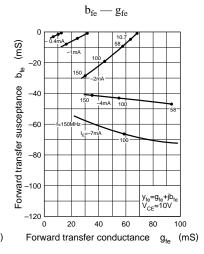


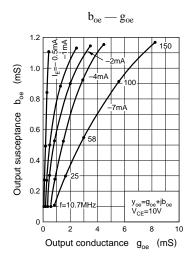












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