## 2SC3930

### Silicon NPN epitaxial planer type

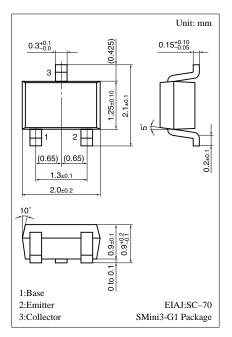
For high-frequency amplification Complementary to 2SA1532

#### Features

- Optimum for RF amplification of FM/AM radios.
- High transition frequency f<sub>T</sub>.
- 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 <sub>CBO</sub>	30	V
Collector to emitter voltage	V <sub>CEO</sub>	20	V
Emitter to base voltage	V <sub>EBO</sub>	5	V
Collector current	$I_{C}$	30	mA
Collector power dissipation	P <sub>C</sub>	150	mW
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	$T_{stg}$	<b>−55 ~ +150</b>	°C



Marking symbol: V

#### Electrical Characteristics (Ta=25°C)

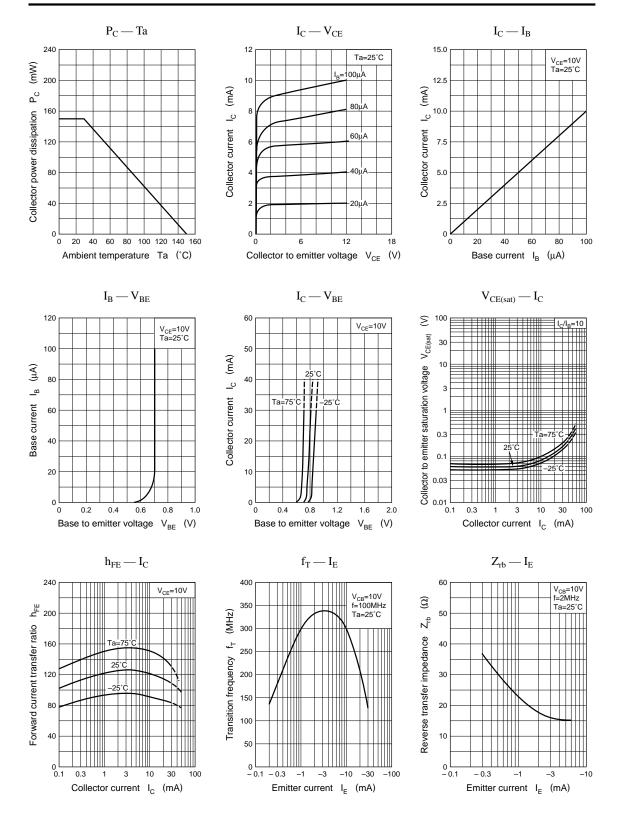
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = 10V, I_{E} = 0$			0.1	μΑ
Forward current transfer ratio	h <sub>FE</sub> *	$V_{CB} = 10V, I_{E} = -1mA$	70		220	
Transition frequency	$f_T$	$V_{CB} = 10V, I_E = -1mA, f = 200MHz$	150	250		MHz
Noise figure	NF	$V_{CB} = 10V, I_{E} = -1mA, f = 5MHz$		2.8	4	dB
Reverse transfer impedance	Z <sub>rb</sub>	$V_{CB} = 10V, I_{E} = -1mA, f = 2MHz$		22	50	Ω
Common emitter reverse transfer capacitance	C <sub>re</sub>	$V_{CE} = 10V, I_{C} = 1mA, f = 10.7MHz$		0.9	1.5	pF

#### \*h<sub>FE</sub> Rank classification

Rank	В	С		
$h_{\mathrm{FE}}$	70 ~ 140	110 ~ 220		
Marking Symbol	VB	VC		

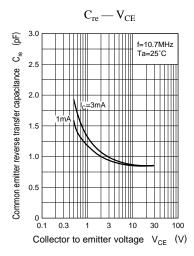
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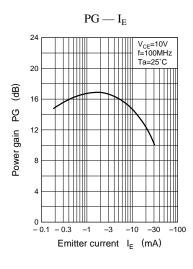
Transistor 2SC3930

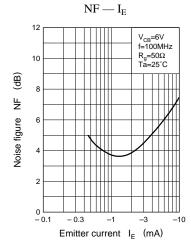


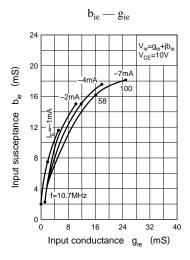
420 Panasonic

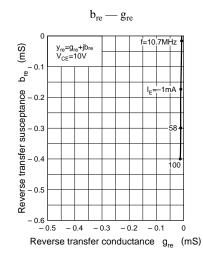
Transistor 2SC3930

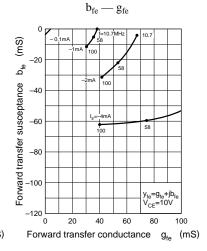


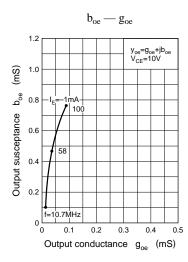












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