# 2SC3936

## Silicon NPN epitaxial planer type

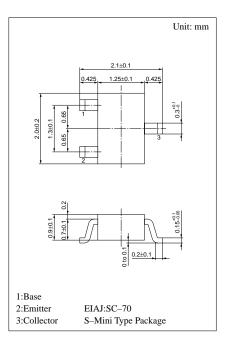
For high-frequency amplification

### Features

- Optimum for RF amplification, oscillation, mixing, and IF of FM/ AM radios.
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

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 <sub>C</sub>	30	mA		
Collector power dissipation	P <sub>C</sub>	150	mW		
Junction temperature	Tj	150	°C		
Storage temperature	T <sub>stg</sub>	-55 ~ +150	°C		
Collector to emitter voltage Emitter to base voltage Collector current Collector power dissipation Junction temperature	$V_{CEO}$ $V_{EBO}$ $I_C$ $P_C$ $T_j$	20 5 30 150 150	V V mA mW °C		

### Absolute Maximum Ratings (Ta=25°C)



Marking symbol : K

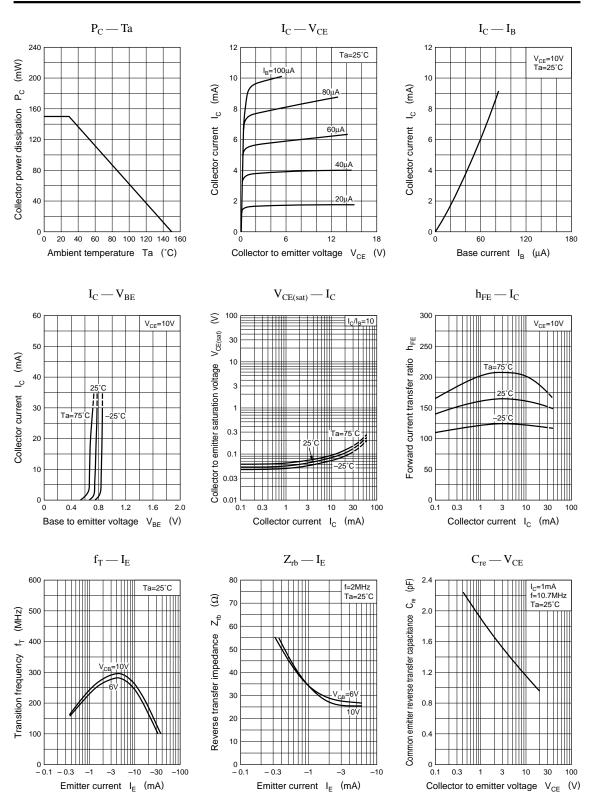
### Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V <sub>CBO</sub>	$I_{\rm C} = 10 \mu A, I_{\rm E} = 0$	30			v
Collector to emitter voltage	V <sub>CEO</sub>	$I_C = 2mA$ , $I_B = 0$	20			V
Emitter to base voltage	V <sub>EBO</sub>	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	5			V
Forward current transfer ratio	h <sub>FE</sub> *	$V_{CE} = 10V, I_{C} = 1mA$	70		250	
Transition frequency	f <sub>T</sub>	$V_{CB} = 10V, I_E = -1mA, f = 200MHz$	150	230		MHz
Common emitter reverse transfer capacitance	C <sub>re</sub>	$V_{CE} = 10V, I_C = 1mA, f = 10.7MHz$		1.3		pF

#### \*hFE Rank classification

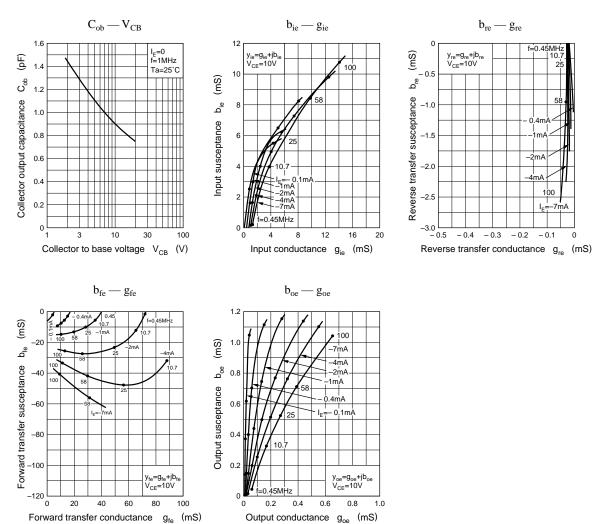
Rank	В	С	
h <sub>FE</sub>	70 ~ 160	110 ~ 250	
Marking Symbol	KB	KC	

## Transistor



#### Panasonic

## Transistor



Forward transfer conductance  $g_{fe}$  (mS)

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