2SC3936

Silicon NPN epitaxial planar type

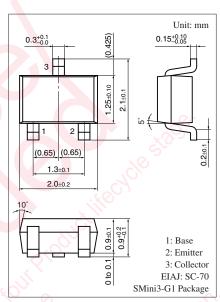
For high-frequency amplification

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

Absolute Maximum Ratings $T_a = 25^{\circ}C$

¥	u			
Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	30	V	
Collector-emitter voltage (Base open)	V _{CEO}	20	v	
Emitter-base voltage (Collector open)	V _{EBO}	5	V	
Collector current	I _C	30	mA	
Collector power dissipation	P _C	150	mW	
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	



Marking Symbol: K

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \ \mu A, \ I_{\rm E} = 0$	30	S		V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = 2 \text{ mA}, I_{\rm B} = 0$	20	0		V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = 10 \ \mu A, I_{\rm C} = 0$	5			V
Forward current transfer ratio *	h _{FE}	$V_{CE} = 10 V, I_C = 1 mA$	70		250	_
Transition frequency	f _T	$V_{CB} = 10 \text{ V}, I_E = -1 \text{ mA}, f = 200 \text{ MHz}$	150	230		MHz
Reverse transfer capacitance	C _{re}	$V_{CB} = 10 \text{ V}, I_E = -1 \text{ mA}, f = 10.7 \text{ MHz}$		1.3		pF
(Common emitter)		i the state				

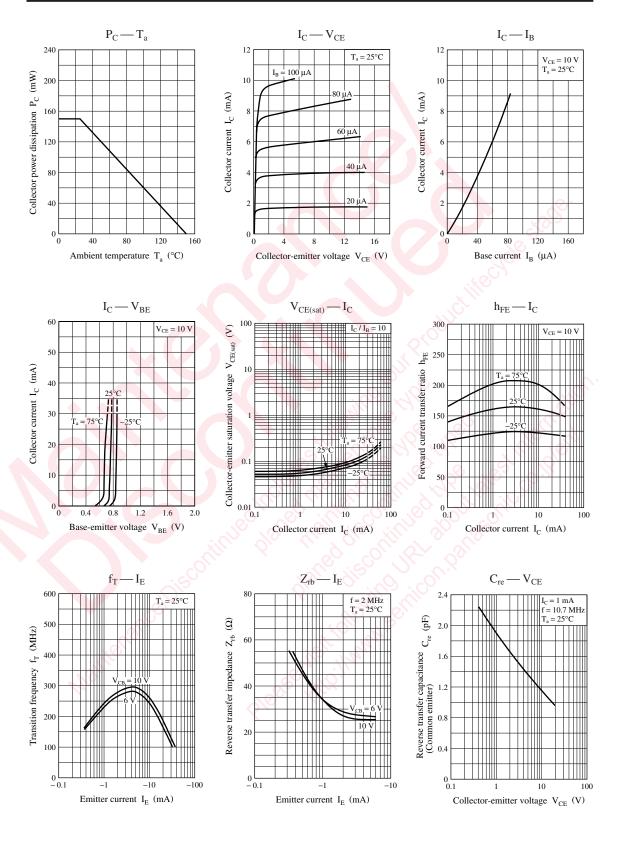
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

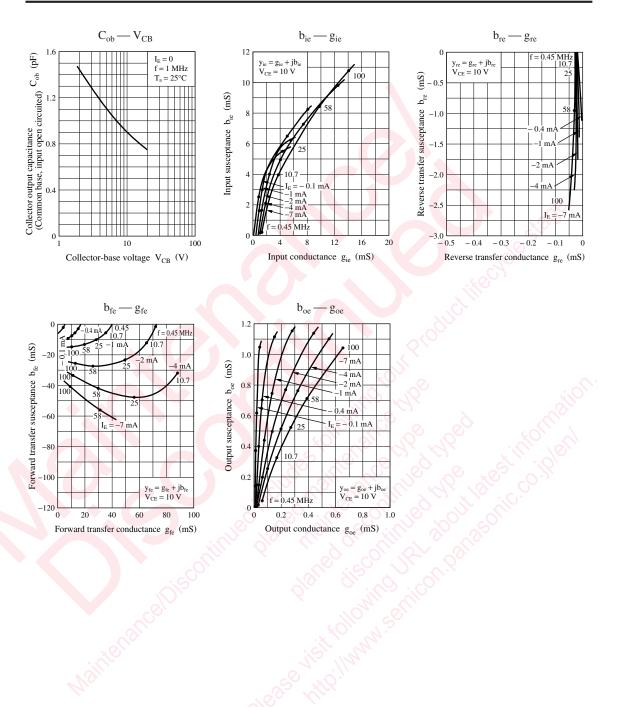
Rank	В	C S
h _{FE}	70 to 160	110 to 250

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