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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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2SC3934G

Silicon NPN epitaxial planar type

For high-frequency wide-band low-noise amplification

■ Features

- 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

■ Package

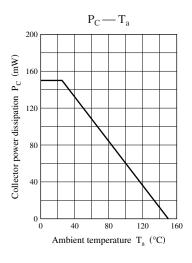
- Code SMini3-F2
- Marking Symbo

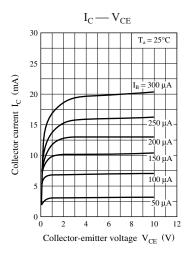
■ Absolute Maximum Ratings $T_a = 25$ °C

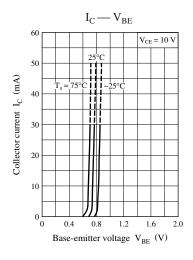
automatic insertion through the t				Marking Symbol 1U Pin Name 1. Base 2. Emiller				
Absolute Maximum Ratings	3. Collector							
Parameter	Symbol	Rating	Unit	111 7 70				
Collector-base voltage (Emitter open)	V_{CBO}	15	V	KOLEO S.				
Collector-emitter voltage (Base open)	V _{CEO}	12	V	NOT ON SICE				
Emitter-base voltage (Collector open)	V _{EBO}	2.5	S.V	18, Co O				
Collector current	I_C	30	mAC	Je es				
Peak collector current	I_{CP}	50	(GiA					
Collector power dissipation	P _C	×0150 Q	mW	, , , ,				
Junction temperature	T _j	150	€					
Storage temperature	T _{stg}	-85 to +150	o °C	C. C.				
■ Electrical Characteristics T. 25°C + 3°C								

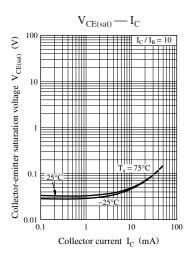
Parameter Symbol Conditions	Min	Тур	Max	Unit
Collector-base cutoff current (Emitter open) \mathbf{V}_{CBO} $\mathbf{V}_{CB} = \mathbf{V}_{CB}$, $\mathbf{I}_{E} = 0$			100	nA
Emitter-base cutoff current (Collector open) I_{ERO} $V_{EB} = 2 \text{ V}, I_{C} = 0$			1	μΑ
Forward current transfer ratio h_{FE} $C_{CE} = 10 \text{ V}, I_{C} = 10 \text{ mA}$	40			_
Transition frequency $V_{CE} = 10 \text{ V}, I_C = 10 \text{ mA}, f = 10 \text{ mA}$	0.8 GHz	4.5		GHz
Collector output capacitance V_{Cob} $V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MH}$	z		1.2	pF
(Common base, input open circuited)				
Forward transfer gain $ S_{21e} ^2$ $ V_{CE} ^2$ $ V_{CE} ^2$ $ V_{CE} ^2$ $ V_{CE} ^2$	0.8 GHz 9	12		dB
Maximum unilateral power gain G_{UM} $V_{CE} = 10 \text{ V}, I_C = 20 \text{ mA}, f = $	0.8 GHz 12	14		dB
Noise figure $V_{CE} = 10 \text{ V}, I_{C} = 5 \text{ mA}, f = 0$.8 GHz	1.3	2.5	dB

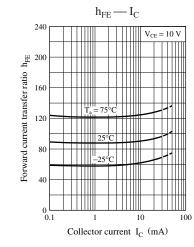
Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

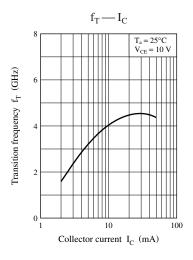


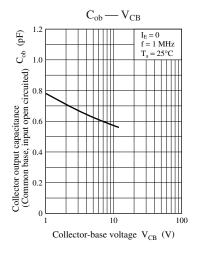


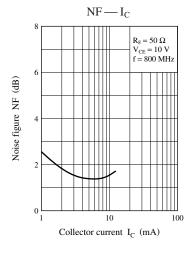


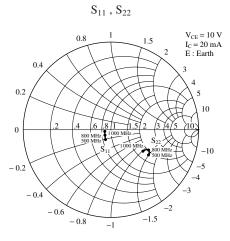




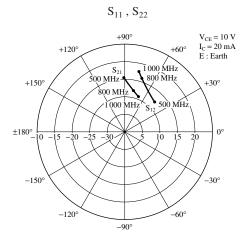






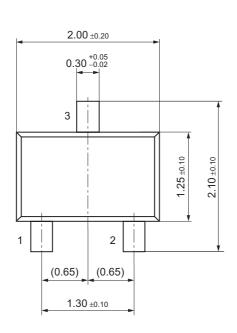


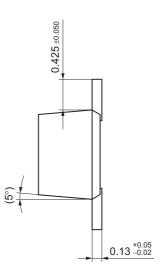
2 SJC00360AED



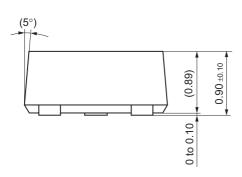
SJC00360AED 3

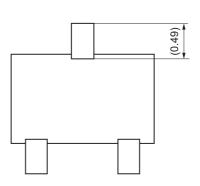
SMini3-F2 Unit: mm











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