

**PNP Silicon Transistor** 

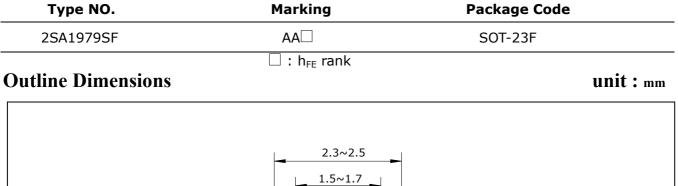
#### Description

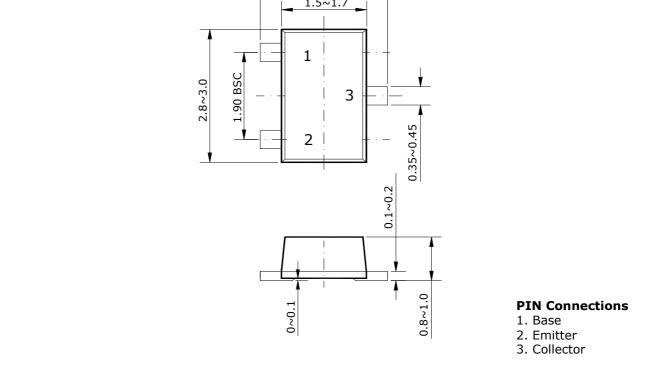
• Medium power amplifier

#### Features

- Large collector current :  $I_{CMax}$ =-500mA
- Suitable for low-Voltage operation because of its low saturation voltage
- Complementary pair with 2SC5342SF

#### **Ordering Information**





#### Absolute maximum ratings

(Ta=25°C) Characteristic Symbol Unit Ratings V Collector-Base voltage  $V_{CBO}$ -40 Collector-Emitter voltage V  $V_{CEO}$ -32 -5 V Emitter-Base voltage  $V_{EBO}$ Collector current -500  $\mathbf{I}_{\mathsf{C}}$ mΑ Collector dissipation  $\mathbf{P}_{\mathbf{C}}$ 200 mW °C Junction temperature Ti 150  $\mathsf{T}_{\mathsf{stg}}$ Storage temperature -55~150 °C

### **Electrical Characteristics**

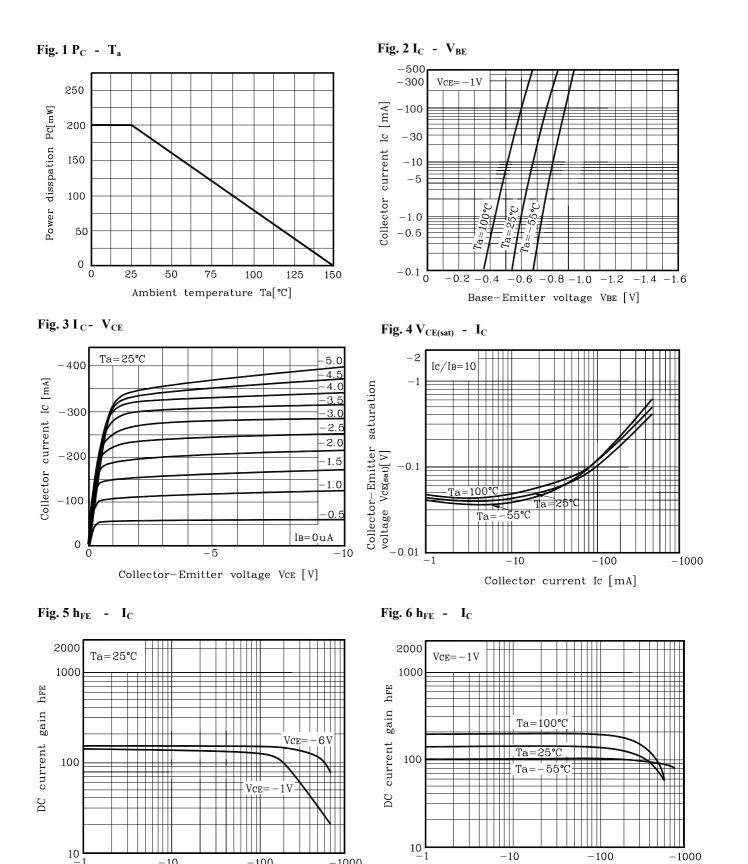
(Ta=25°C)

Characteristic	Symbol	<b>Test Condition</b>	Min.	Тур.	Max.	Unit
Collector-Base breakdown voltage	$BV_{CBO}$	$I_{C}$ =-100 $\mu$ A, $I_{E}$ =0	-40	-	-	V
Collector-Emitter breakdown voltage	$BV_{CEO}$	$I_C$ =-1mA, $I_B$ =0	-32	-	-	V
Emitter-Base breakdown voltage	$BV_{EBO}$	$I_{E}$ =-10 $\mu$ A, $I_{C}$ =0	-5	-	-	V
Collector cut-off current	$I_{CBO}$	$V_{CB}$ =-40V, $I_{E}$ =0	-	-	-0.1	μA
Emitter cut-off current	$\mathbf{I}_{EBO}$	$V_{EB}$ =-5V, $I_{C}$ =0	-	-	-0.1	μA
DC current gain	h <sub>FE</sub> *	$V_{CE}$ =-1V, I <sub>C</sub> =-100mA	70	-	240	-
Collector-Emitter saturation voltage	$V_{CE(sat)}$	$I_{C}$ =-100mA, $I_{B}$ =-10mA	-	-	-0.25	V
Transistor frequency	f <sub>T</sub>	$V_{CE}$ =-6V, $I_{C}$ =-20mA	-	200	-	MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB}$ =-6V, $I_E$ =0, f=1MHz	-	7.5	-	рF

: h<sub>FE</sub> rank / O : 70~140, Y : 120~240 \*

### **Electrical Characteristic Curves**

10 **L** 



-1000

-100

Collector current Ic [mA]

-10

-10

-100

Collector current IC [mA]

-1000

These AUK products are intended for usage in general electronic equipments(Office and communication equipment, measuring equipment, domestic electrification, etc.).

Please make sure that you consult with us before you use these AUK products in equipments which require high quality and/or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, traffic signal, combustion central, all types of safety device, etc.).

AUK cannot accept liability to any damage which may occur in case these AUK products were used in the mentioned equipments without prior consultation with AUK.