

#### **PNP Silicon Transistor**

### Description

• Medium power amplifier

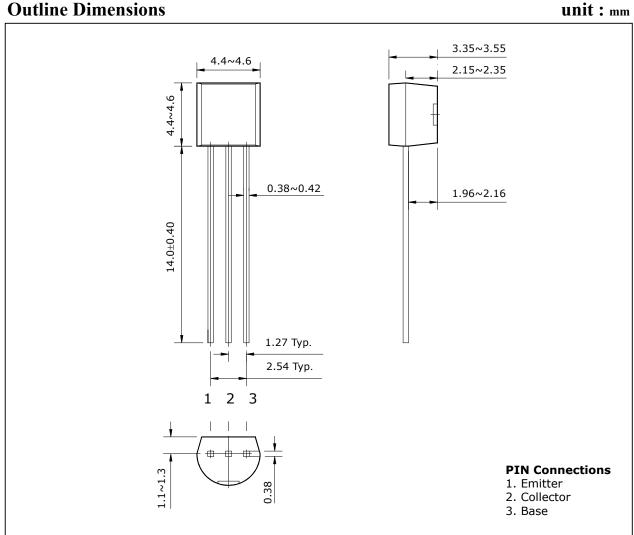
#### **Features**

- Large collector current :  $I_{CMax}$ =-500mA
- Suitable for low-Voltage operation because of its low saturation voltage
- Complementary pair with 2SC5342

### **Ordering Information**

Type NO.	Marking	Package Code	
2SA1979	A1979	TO-92	

#### **Outline Dimensions**



KST-9001-002

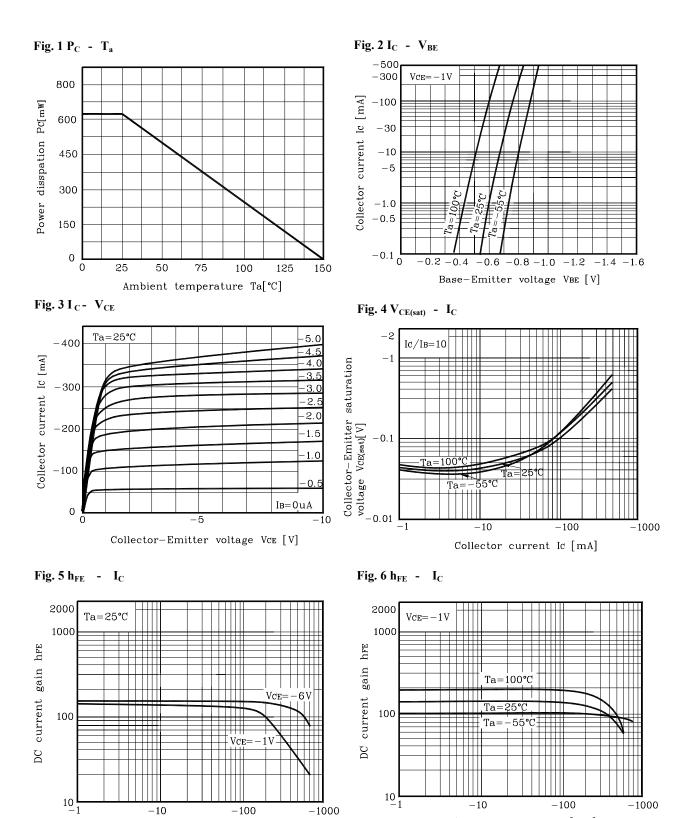
Absolute maximum ratings			(Ta=25°C)	
Characteristic	Symbol	Ratings	Unit	
Collector-Base voltage	V <sub>CBO</sub>	-40	V	
Collector-Emitter voltage	V <sub>CEO</sub>	-32	V	
Emitter-Base voltage	V <sub>EBO</sub>	-5	V	
Collector current	I <sub>C</sub>	-500	mA	
Collector dissipation	Pc	625	mW	
Junction temperature	Tj	150	°C	
Storage temperature	T <sub>stg</sub>	-55~150	°C	

## **Electrical Characteristics**

(Ta=25°C) Characteristic Symbol **Test Condition** Min. Max. Unit Typ. Collector-Base breakdown voltage  $\mathsf{BV}_{\mathsf{CBO}}$  $I_C{=}{\text{-}100}\mu\text{A}\text{, }I_E{=}0$ -40 \_ V -Collector-Emitter breakdown voltage  $I_C$ =-1mA,  $I_B$ =0 -32 \_ V  $\mathsf{BV}_{\mathsf{CEO}}$ \_ Emitter-Base breakdown voltage  $I_{E}{=}{-}10\mu\text{A}\text{, }I_{C}{=}0$ -5 V  $\mathsf{BV}_{\mathsf{EBO}}$ -\_ Collector cut-off current  $V_{CB}$ =-40V,  $I_E$ =0 -0.1 μA -- $I_{\mathsf{CBO}}$ Emitter cut-off current  $V_{EB}$ =-5V,  $I_C$ =0 -0.1 μA  $I_{\mathsf{EBO}}$ -- ${\mathsf{h}_{\text{FE}}}^*$ DC current gain  $V_{CE}$ =-1V,  $I_C$ =-100mA 70 240 --Collector-Emitter saturation voltage  $I_C$ =-100mA,  $I_B$ =-10mA -0.25 ٧ V<sub>CE(sat)</sub> --Transistor frequency  $\mathbf{f}_{\mathsf{T}}$  $V_{CE}$ =-6V,  $I_C$ =-20mA 200 -MHz -Collector output capacitance pF  $C_{\text{ob}}$  $V_{CB}$ =-6V,  $I_E$ =0, f=1MHz -7.5 -

\* :  $h_{FE} rank / O$  : 70~140, Y : 120~240

## **Electrical Characteristic Curves**



KST-9001-002

Collector current IC [mA]

Collector current IC [mA]

# 2SA1979

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