

### Description

• Medium power amplifier

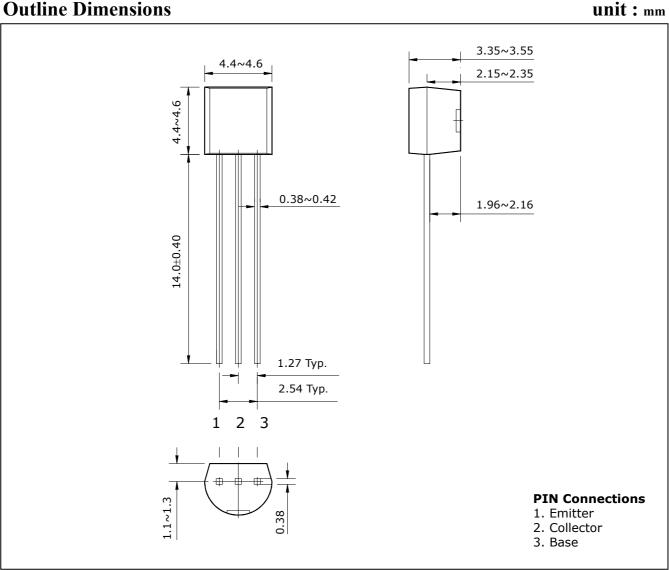
#### **Features**

- 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**



# Absolute maximum ratings

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	P <sub>C</sub>	625	mW		
Junction temperature	T <sub>j</sub>	150	°C		
Storage temperature	T <sub>stg</sub>	-55~150	°C		

## **Electrical Characteristics**

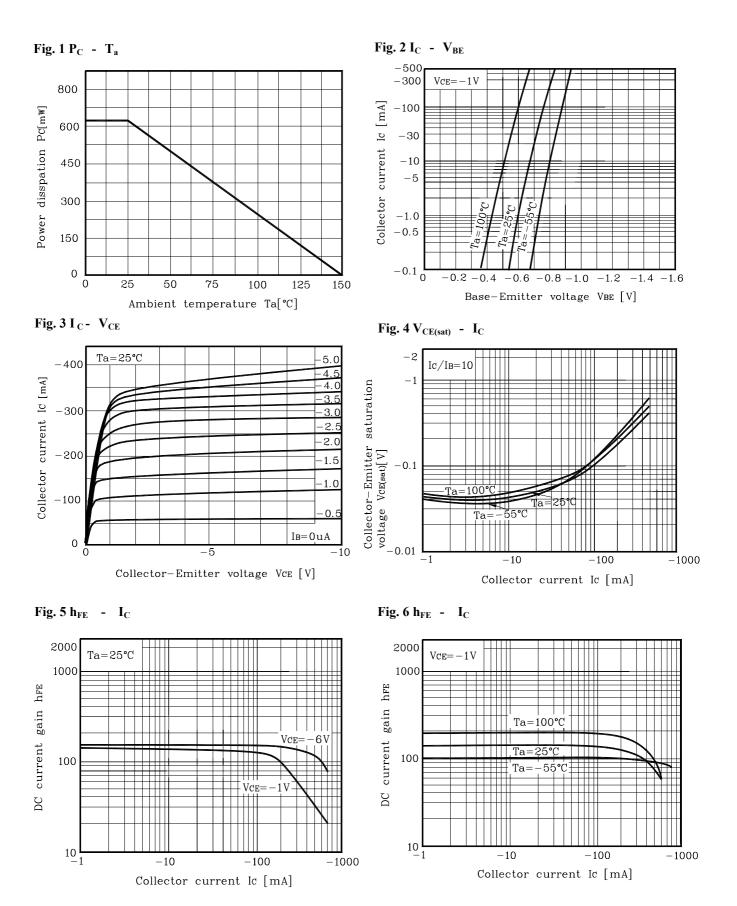
(Ta=25°C)

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	$I_{EBO}$	V <sub>EB</sub> =-5V, I <sub>C</sub> =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	$f_{T}$	$V_{CE}$ =-6V, $I_{C}$ =-20mA	-	200	-	MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB}$ =-6V, $I_E$ =0, f=1MHz	-	7.5	-	pF

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

# 2SA1979

### **Electrical Characteristic Curves**



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