

**Silicon PNP Power Transistors**

**2SA900**

**DESCRIPTION**

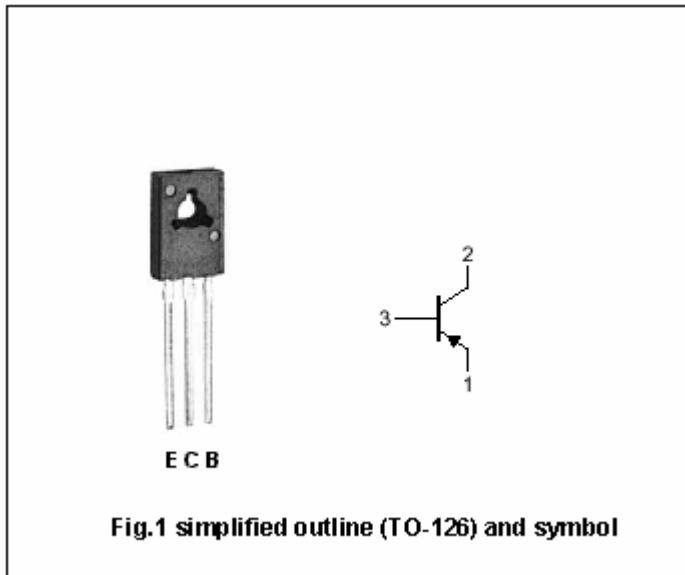
- With TO-126 package
- Complement to type 2SC1568
- Low collector saturation voltage

**APPLICATIONS**

- For audio frequency power amplifier

**PINNING**

PIN	DESCRIPTION
1	Emitter
2	Collector;connected to mounting base
3	Base



**Absolute Maximun Ratings (Ta=25 )**

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$V_{CBO}$	Collector-base voltage	Open emitter	-20	V
$V_{CEO}$	Collector-emitter voltage	Open base	-18	V
$V_{EBO}$	Emitter-base voltage	Open collector	-5	V
$I_C$	Collector current		-1	A
$I_{CM}$	Collector current-peak		-2	A
$P_C$	Collector power dissipation	$T_C=25$	1.2	W
$T_j$	Junction temperature		150	
$T_{stg}$	Storage temperature		-55~150	

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## 2SA900

## CHARACTERISTICS

T<sub>j</sub>=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-emitter breakdown voltage	I <sub>C</sub> =-1mA; I <sub>B</sub> =0	-18			V
V <sub>(BR)CBO</sub>	Collector-base breakdown voltage	I <sub>C</sub> =-10 μ A ; I <sub>E</sub> =0	-20			V
V <sub>(BR)EBO</sub>	Emitter-base breakdown voltage	I <sub>E</sub> =-10 μ A ; I <sub>C</sub> =0	-5			V
V <sub>CEsat</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =-1A ; I <sub>B</sub> =-50mA			-0.5	V
V <sub>BEsat</sub>	Base-emitter saturation voltage	I <sub>C</sub> =-500mA ; I <sub>B</sub> =-50mA			-1.2	V
I <sub>CBO</sub>	Collector cut-off current	V <sub>CB</sub> =-10V; I <sub>E</sub> =0			-1	μ A
I <sub>CEO</sub>	Collector cut-off current	V <sub>CE</sub> =-18V; I <sub>B</sub> =0			-10	μ A
h <sub>FE-1</sub>	DC current gain	I <sub>C</sub> =-500mA ; V <sub>CE</sub> =-2V	90		470	
h <sub>FE-2</sub>	DC current gain	I <sub>C</sub> =-1.5A ; V <sub>CE</sub> =-2V	50			
C <sub>OB</sub>	Output capacitance	I <sub>E</sub> =0 ; V <sub>CB</sub> =-6V; f=1MHz		40		pF
f <sub>T</sub>	Transition frequency	I <sub>E</sub> =50mA ; V <sub>CB</sub> =-6V		200		MHz

◆ h<sub>FE-1</sub> Classifications

Q	R	S	T	U
90-155	130-210	180-280	250-360	330-470

