

Silicon PNP Power Transistors

2SA914

DESCRIPTION

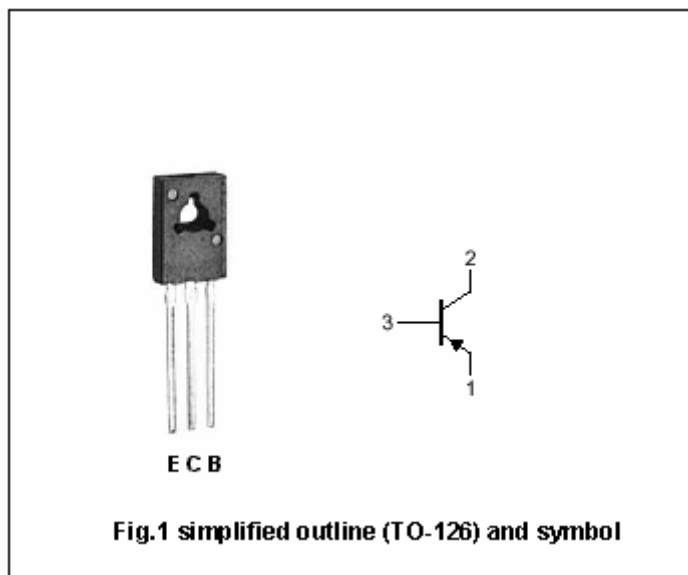
- With TO-126 package
- Complement to type 2SC1953
- Good linearity of h_{FE}
- High V_{CEO}

APPLICATIONS

- For audio frequency power pre-amplifier

PINNING

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

Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-150	V
V_{CEO}	Collector-emitter voltage	Open base	-150	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-50	mA
I_{CM}	Collector current-Peak		-100	mA
P_C	Collector power dissipation		1	W
T_j	Junction temperature		150	$^\circ\text{C}$
T_{stg}	Storage temperature		-55~150	$^\circ\text{C}$

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CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-0.1mA; I _B =0	-150			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-10 μ A ; I _C =0	-5			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-30mA ; I _B =-3mA			-1.0	V
I _{CBO}	Collector cut-off current	V _{CB} =-100V; I _E =0			-1	μ A
I _{EBO}	Emitter cut-off current	V _{EB} =-5V; I _C =0			-1	μ A
h _{FE}	DC current gain	I _C =-10mA ; V _{CE} =-5V	90		450	
C _{OB}	Output capacitance	I _E =0 ; V _{CB} =-10V; f=1MHz			5	pF
f _T	Transition frequency	I _E =10mA ; V _{CB} =-10V		200		MHz

◆ h_{FE} Classifications

Q	R	S	T
90-155	130-220	185-330	260-450

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PACKAGE OUTLINE

