

Inchange Semiconductor

Product Specification

Silicon PNP Power Transistors

2SA1166

DESCRIPTION

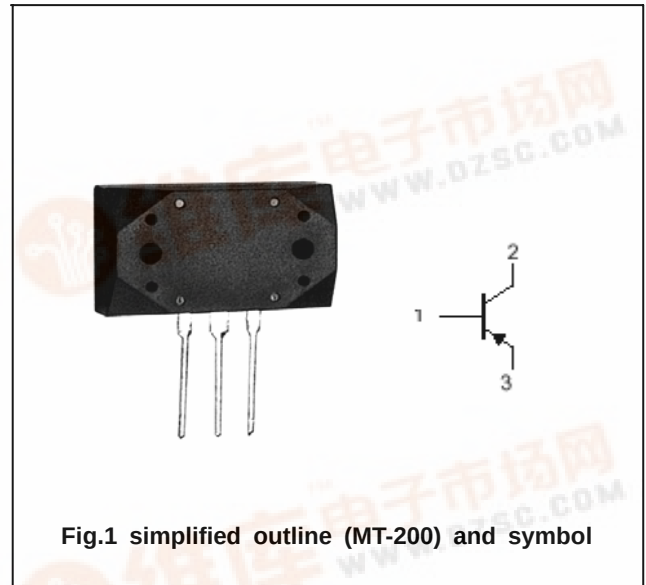
- With MT-200 package
- High power dissipation

APPLICATIONS

- Audio and general purpose applications

PINNING (see Fig.2)

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



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	-6	V
I_C	Collector current		-15	A
I_B	Base current		-5	A
P_C	Collector power dissipation	$T_C=25^{\circ}\text{C}$	150	W
T_j	Junction temperature		150	$^{\circ}\text{C}$
T_{stg}	Storage temperature		-55~150	$^{\circ}\text{C}$

Silicon PNP Power Transistors

2SA1166

CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-25mA ; I _B =0	-150			V
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-1mA ; I _E =0	-150			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-1mA ; I _C =0	-6			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-5A ; I _B =-0.5A			-2.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =-5A ; I _B =-0.5A			-2.5	V
I _{CBO}	Collector cut-off current	V _{CB} =-150V ; I _E =0			-10	μ A
I _{EBO}	Emitter cut-off current	V _{EB} =-6V ; I _C =0			-10	μ A
h _{FE}	DC current gain	I _C =-5A ; V _{CE} =-4V	50			
f _T	Transition frequency	I _C =-1A ; V _{CE} =-10V		60		MHz

Silicon PNP Power Transistors

2SA1166

PACKAGE OUTLINE

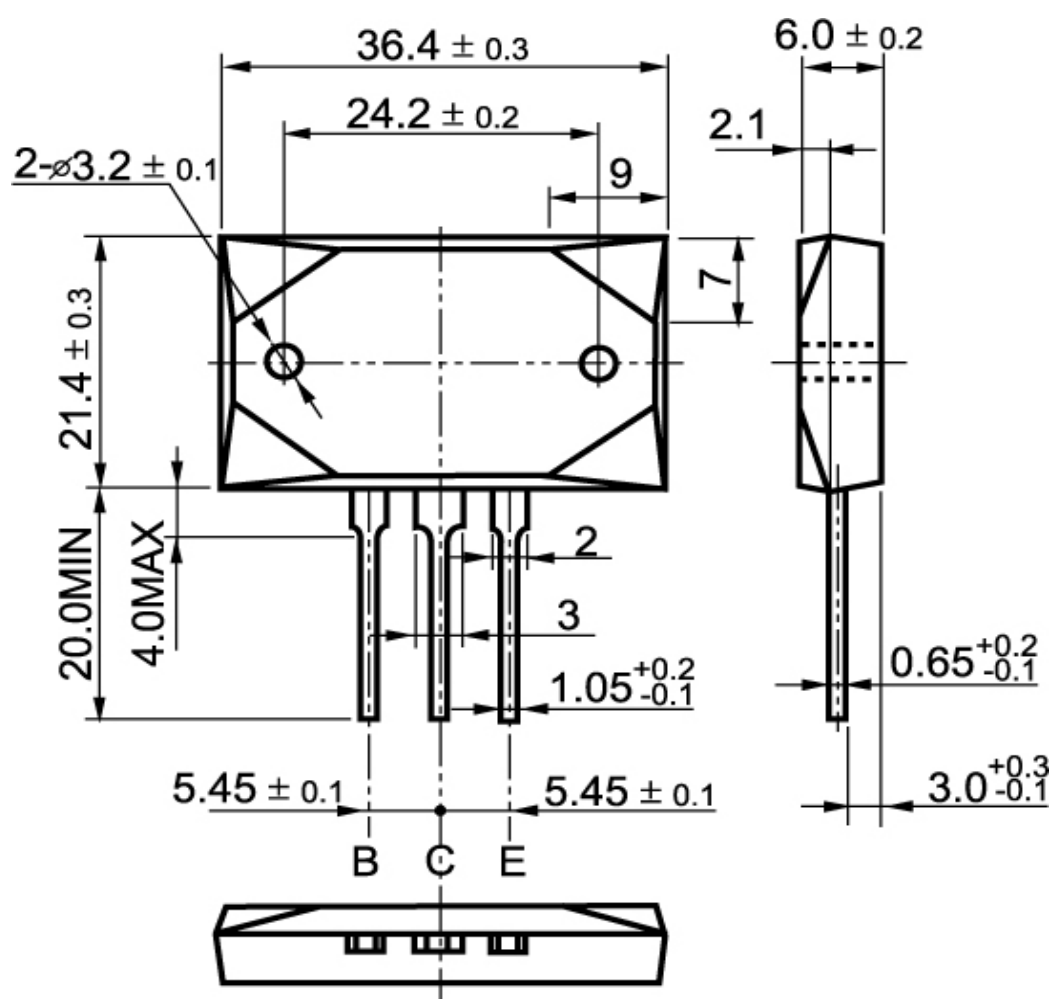


Fig.2 outline dimensions