

Silicon PNP Power Transistors

2SA1389

DESCRIPTION

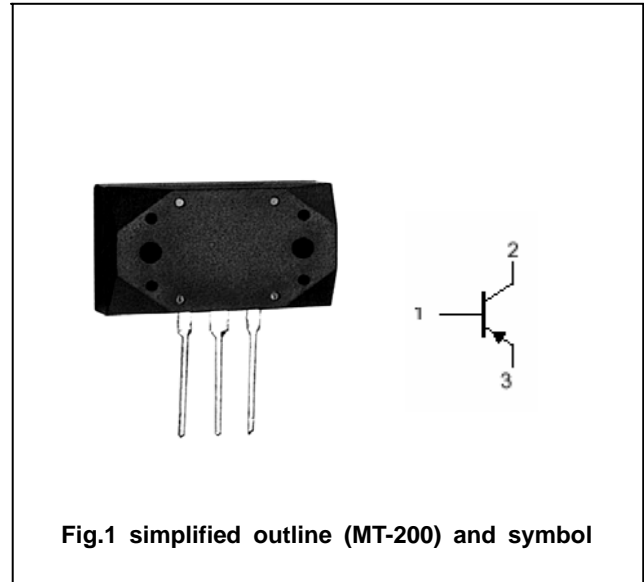
- With MT-200 package
- Fast switching speed
- Excellent safe operating area

APPLICATIONS

- High frequency power amplifiers
- Audio power amplifiers
- Switching regulators
- DC-DC converters

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	-160	V
V_{CEO}	Collector-emitter voltage	Open base	-160	V
V_{EBO}	Emitter-base voltage	Open collector	-7	V
I_C	Collector current		-12	A
P_C	Collector power dissipation	$T_C=25^{\circ}\text{C}$	120	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 =-1mA ; I _B =0	-160			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-50 μ A; I _C =0	-7			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-5A; I _B =-0.5A			-1.8	V
V _{BE}	Base-emitter voltage	I _C =-5A; V _{CE} =-5V			-1.7	V
I _{CBO}	Collector cut-off current	V _{CB} =-160V; I _E =0			-50	μ A
I _{CEO}	Collector cut-off current	V _{CE} =-160V; I _B =0			-1	mA
I _{EBO}	Emitter cut-off current	V _{EB} =-7V; I _C =0			-50	μ A
h _{FE-1}	DC current gain	I _C =-1A ; V _{CE} =-5V	60		200	
h _{FE-2}	DC current gain	I _C =-7A ; V _{CE} =-5V	40			
f _T	Transition frequency	I _C =-1A ; V _{CE} =-10V		30		MHz

PACKAGE OUTLINE

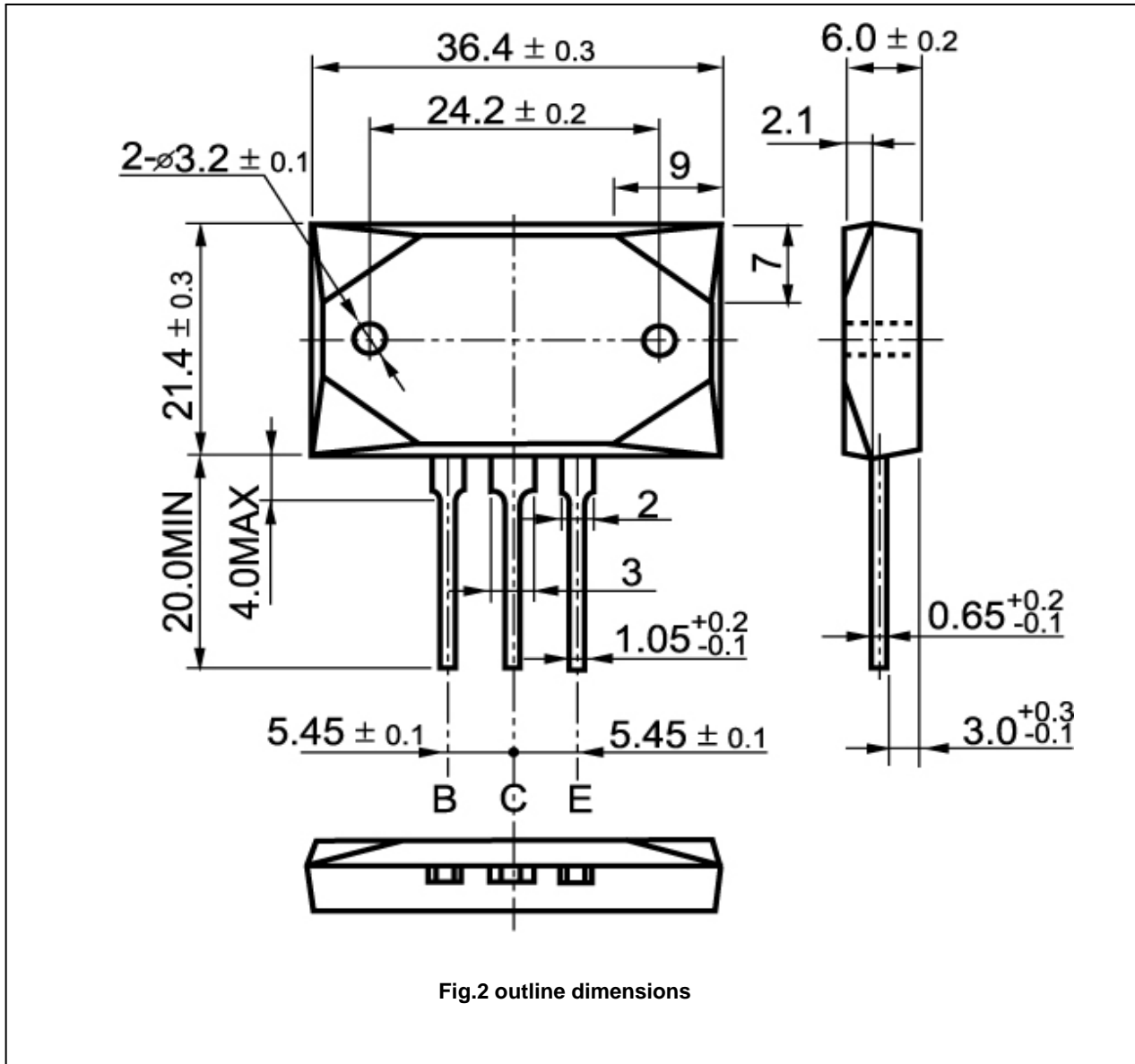


Fig.2 outline dimensions