

Silicon PNP Power Transistors

2SA1106

DESCRIPTION

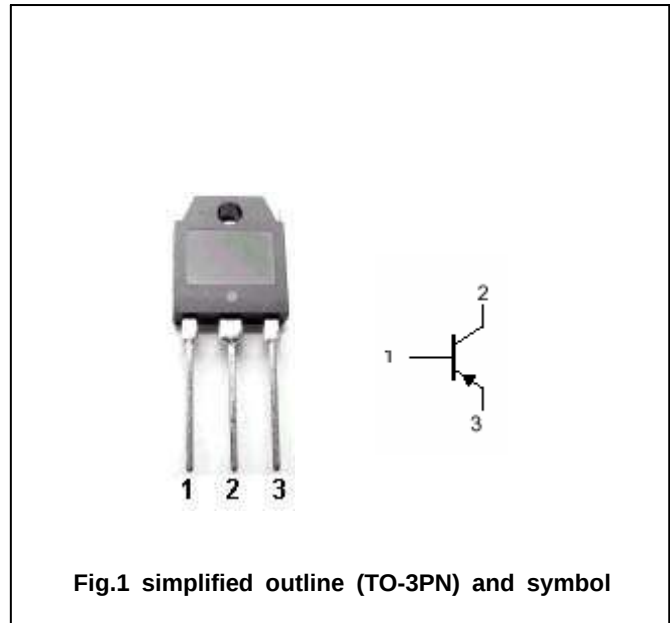
- With TO-3PN package
- High frequency
- Complement to type 2SC2581

APPLICATIONS

- Audio power amplifier applications
- DC-DC converters

PINNING

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



Absolute maximum ratings($T_a = ^\circ\text{C}$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-140	V
V_{CEO}	Collector-emitter voltage	Open base	-140	V
V_{EBO}	Emitter-base voltage	Open collector	-6	V
I_C	Collector current		-10	A
I_B	Base current		-4	A
P_C	Collector power dissipation	$T_C = 25^\circ\text{C}$	100	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 =-25mA ; I _B =0	-140			V
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =-5A; I _B =-0.5A			-2.0	V
I _{CBO}	Collector cut-off current	V _{CB} =-140V; I _E =0			-100	μ A
I _{EBO}	Emitter cut-off current	V _{EB} =-6V; I _C =0			-100	μ A
h _{FE}	DC current gain	I _C =-3A ; V _{CE} =4V	30			
f _T	Transition frequency	I _E =0.5A ; V _{CE} =-12V		20		MHz

Switching times

t _r	Rise time	I _C =-5A; R _L =12 Ω I _{B1} =- I _{B2} =-0.5A V _{CC} =60V		0.3		μ s
t _s	Storage time			0.9		μ s
t _f	Fall time			0.2		μ s

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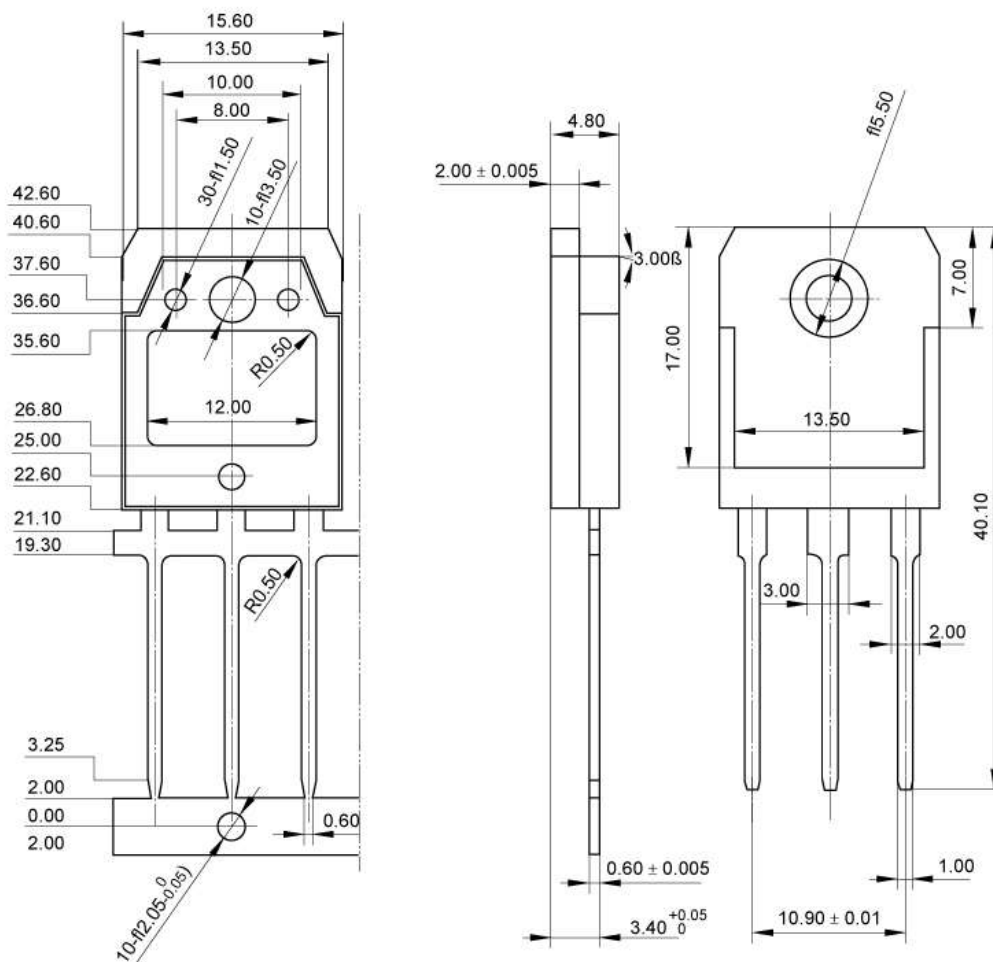


Fig.2 outline dimensions (unindicated tolerance: $\pm 0.1\text{mm}$)