

Silicon NPN Power Transistors

2N5598 2N5600 2N5602 2N5604

DESCRIPTION

- With TO-66 package
- Excellent safe operating area
- Low collector saturation voltage

APPLICATIONS

- For high frequency power amplifier ; audio power amplifier and drivers.

PINNING(see Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

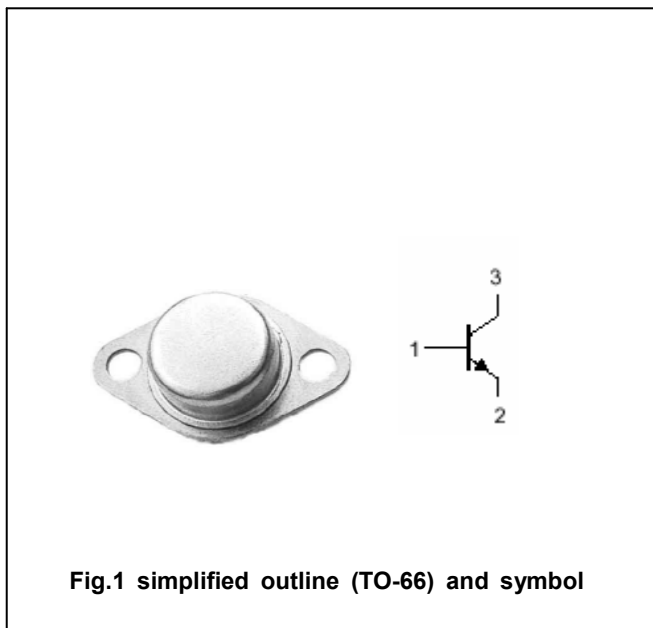


Fig.1 simplified outline (TO-66) and symbol

Absolute maximum ratings(Ta=□)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	2N5598	80	V
		2N5600/5602	100	
		2N5604	120	
V _{CEO}	Collector-emitter voltage	2N5598	60	V
		2N5600/5602	80	
		2N5604	100	
V _{EBO}	Emitter-base voltage	Open collector	5	V
I _C	Collector current		2	A
P _D	Total power dissipation	T _C =25□	20	W
T _j	Junction temperature		150	□
T _{stg}	Storage temperature		-65~150	□

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
R _{th j-c}	Thermal resistance junction to case	4.37	□/W

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CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-emitter sustaining voltage	2N5598	I _C =50mA ; I _B =0	60			V
		2N5600/5602		80			
		2N5604		100			
V _{CEsat}	Collector-emitter saturation voltage		I _C =1A; I _B =0.1A			1.0	V
V _{BE}	Base-emitter on voltage		I _C =1A ; V _{CE} =5V			1.5	V
I _{CBO}	Collector cut-off current		V _{CB} =Rated V _{CBO} ; I _E =0			0.1	mA
I _{CEO}	Collector cut-off current		V _{CE} = Rated V _{CEO} ; I _B =0			1.0	mA
I _{EBO}	Emitter cut-off current		V _{EB} =5V; I _C =0			0.1	mA
h _{FE}	DC current gain	2N5598/5602	I _C =1A ; V _{CE} =5V	70		200	
		2N5600/5604		30		90	
f _T	Transition frequency	2N5598/5602	I _C =0.5A ; V _{CE} =10V	60			MHz
		2N5600/5604		50			

PACKAGE OUTLINE

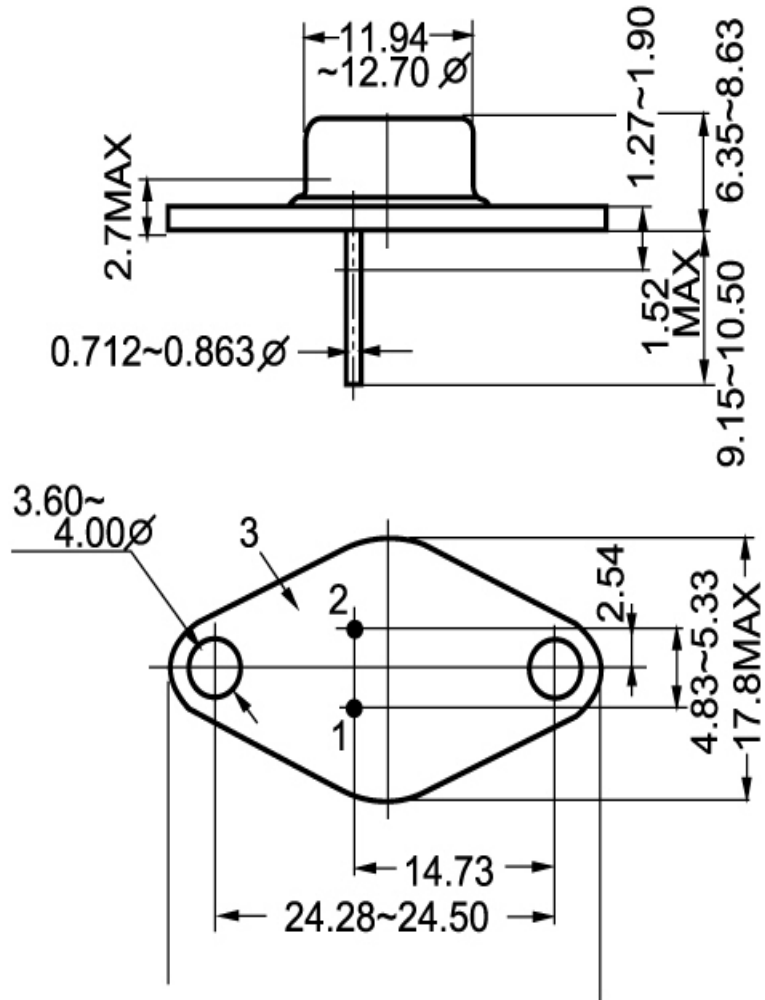


Fig.2 outline dimensions