

Silicon PNP Power Transistors

2N4898 2N4899 2N4900

DESCRIPTION

- With TO-66 package
- Low collector saturation voltage
- Excellent safe operating area
- 2N4900 complement to type 2N4912

APPLICATIONS

- Designed for driver circuits, switching and amplifier applications

PINNING

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

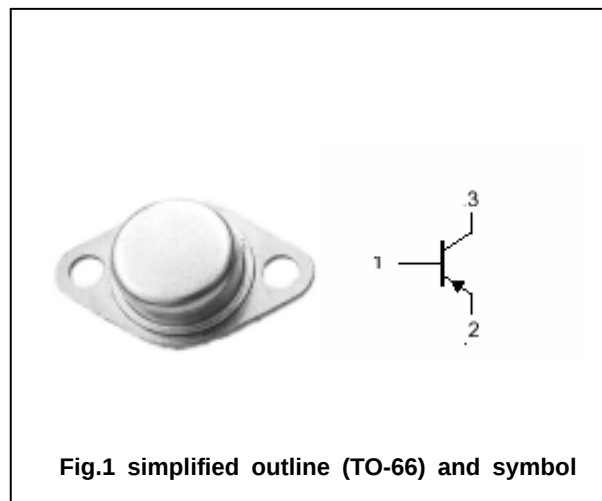


Fig.1 simplified outline (TO-66) and symbol

Absolute maximum ratings($T_a =$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	2N4898	-40	V
		2N4899	-60	
		2N4900	-80	
V_{CEO}	Collector-emitter voltage	2N4898	-40	V
		2N4899	-60	
		2N4900	-80	
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-1.0	A
I_{CM}	Collector current-peak		-4.0	A
I_B	Base current		-1.0	A
P_D	Total Power Dissipation	$T_C = 25$	25	W
T_j	Junction temperature		150	
T_{stg}	Storage temperature		-65~200	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
$R_{th\ j-c}$	Thermal resistance junction to case	7.0	/W

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CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEQ(SUS)}	Collector-emitter sustaining voltage	2N4898	I _C =-0.1A ; I _B =0	-40			V
		2N4899		-60			
		2N4900		-80			
V _{CEsat}	Collector-emitter saturation voltage		I _C =-1A; I _B =-0.1A			-0.6	V
V _{BEsat}	Collector-emitter saturation voltage		I _C =-1A ; I _B =-0.1A			-1.3	V
V _{BE}	Base-emitter on voltage		I _C =-1A ; V _{CE} =-1V			-1.3	V
I _{CEO}	Collector cut-off current	2N4898	V _{CE} =-20V; I _B =0			-0.5	mA
		2N4899	V _{CE} =-30V; I _B =0				
		2N4900	V _{CE} =-40V; I _B =0				
I _{CEX}	Collector cut-off current		V _{CE} =Rated V _{CEQ} ; V _{BE(off)} =1.5V T _C =150			-0.1 -1.0	mA
I _{CBO}	Collector cut-off current		V _{CB} =Rated V _{CBO} ; I _E =0			-0.1	mA
I _{EBO}	Emitter cut-off current		V _{EB} =-5V; I _C =0			-1.0	mA
h _{FE-1}	DC current gain		I _C =-50mA ; V _{CE} =-1V	40			
h _{FE-2}	DC current gain		I _C =-500mA ; V _{CE} =-1V	20		100	
h _{FE-3}	DC current gain		I _C =-1.0A ; V _{CE} =-1V	10			
C _{OB}	Output capacitance		I _E =0; V _{CB} =-10V; f=1MHz			100	pF
f _T	Transition frequency		I _C =-250mA; V _{CE} =-10V	3.0			MHz

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PACKAGE OUTLINE

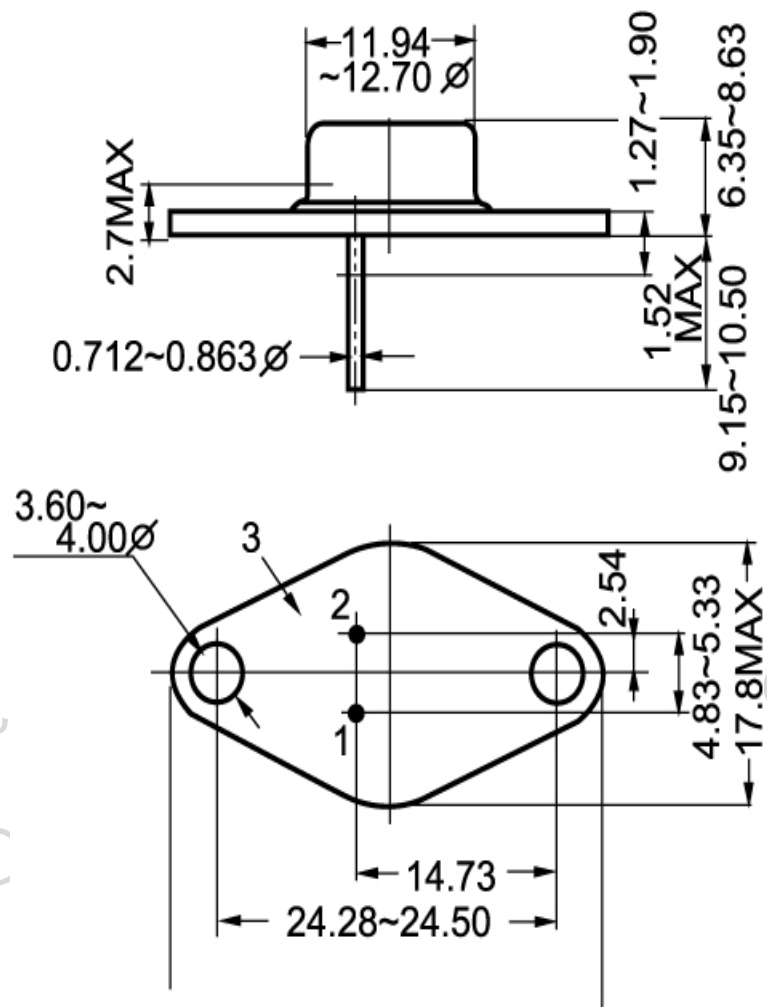


Fig.2 outline dimensions