

Silicon NPN Power Transistors

2N6465 2N6466

DESCRIPTION

- With TO-66 package
- Excellent safe operating area
- Complement to type 2N6467 2N6468

APPLICATIONS

- For use in audio amplifier applications

PINNING(see Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

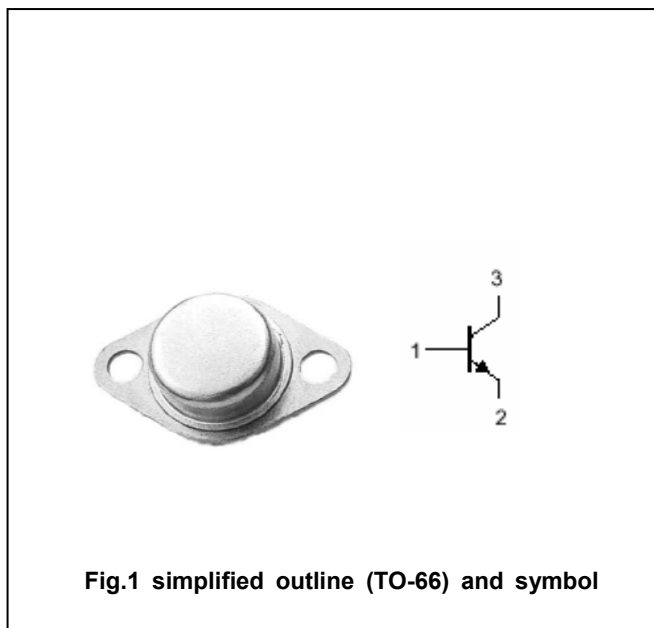


Fig.1 simplified outline (TO-66) and symbol

Absolute maximum ratings(Ta=□)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V _{CBO}	Collector-base voltage	2N6465	110	V
		2N6466	130	
V _{CEO}	Collector-emitter voltage	2N6465	100	V
		2N6466	120	
V _{EBO}	Emitter-base voltage	Open collector	5	V
I _C	Collector current		4	A
P _D	Total power dissipation	T _C =25□	40	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	2.5	□/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	2N6465	I _C =50mA ; I _B =0	100			V
		2N6466		120			
V _{CEsat}	Collector-emitter saturation voltage	I _C =1.5A ; I _B =0.15A			1.2	V	
V _{BE}	Base-emitter on voltage	I _C =1.5A ; V _{CE} =4V			1.5	V	
I _{CBO}	Collector cut-off current	2N6465			10	μA	
		2N6466					V _{CB} =130V ; I _E =0
I _{CEO}	Collector cut-off current	2N6465			100	μA	
		2N6466					V _{CE} = 120V, I _B =0
I _{EBO}	Emitter cut-off current	V _{EB} =5V ; I _C =0			10	μA	
h _{FE}	DC current gain	I _C =1.5A ; V _{CE} =4V	15		150		
f _T	Transition frequency	I _C =0.5A ; V _{CE} =10V	5			MHz	

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PACKAGE OUTLINE



Fig.2 outline dimensions