

**Inchange Semiconductor**

**Product Specification**

**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

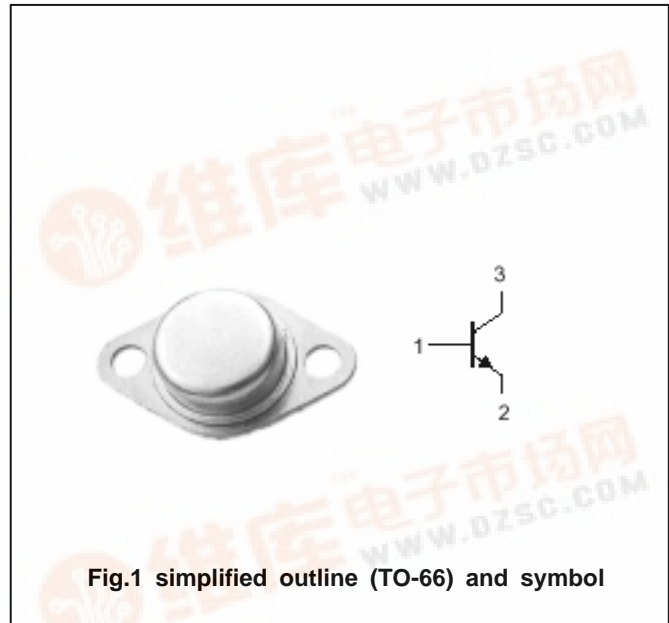


Fig.1 simplified outline (TO-66) and symbol

**Absolute maximum ratings(Ta= )**

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V <sub>CBO</sub>	Collector-base voltage	2N6465	110	V
		2N6466	130	
V <sub>CEO</sub>	Collector-emitter voltage	2N6465	100	V
		2N6466	120	
V <sub>EBO</sub>	Emitter-base voltage	Open collector	5	V
I <sub>C</sub>	Collector current		4	A
P <sub>D</sub>	Total power dissipation	T <sub>C</sub> =25	40	W
T <sub>j</sub>	Junction temperature		150	
T <sub>stg</sub>	Storage temperature		-65~150	

**THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	VALUE	UNIT
R <sub>th j-c</sub>	Thermal resistance junction to case	2.5	/W

## Silicon NPN Power Transistors

## 2N6465 2N6466

## CHARACTERISTICS

T<sub>j</sub>=25 unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CE0(SUS)</sub>	Collector-emitter sustaining voltage	2N6465	I <sub>C</sub> =50mA ; I <sub>B</sub> =0	100			V
		2N6466		120			
V <sub>CEsat</sub>	Collector-emitter saturation voltage		I <sub>C</sub> =1.5A; I <sub>B</sub> =0.15A			1.2	V
V <sub>BE</sub>	Base-emitter on voltage		I <sub>C</sub> =1.5A ; V <sub>CE</sub> =4V			1.5	V
I <sub>CBO</sub>	Collector cut-off current	2N6465	V <sub>CB</sub> =110V; I <sub>E</sub> =0			10	μA
		2N6466	V <sub>CB</sub> =130V; I <sub>E</sub> =0				
I <sub>CEO</sub>	Collector cut-off current	2N6465	V <sub>CE</sub> = 100V, I <sub>B</sub> =0			100	μA
		2N6466	V <sub>CE</sub> = 120V, I <sub>B</sub> =0				
I <sub>EBO</sub>	Emitter cut-off current		V <sub>EB</sub> =5V; I <sub>C</sub> =0			10	μA
h <sub>FE</sub>	DC current gain		I <sub>C</sub> =1.5A ; V <sub>CE</sub> =4V	15		150	
f <sub>T</sub>	Transition frequency		I <sub>C</sub> =0.5A ; V <sub>CE</sub> =10V	5			MHz

PACKAGE OUTLINE

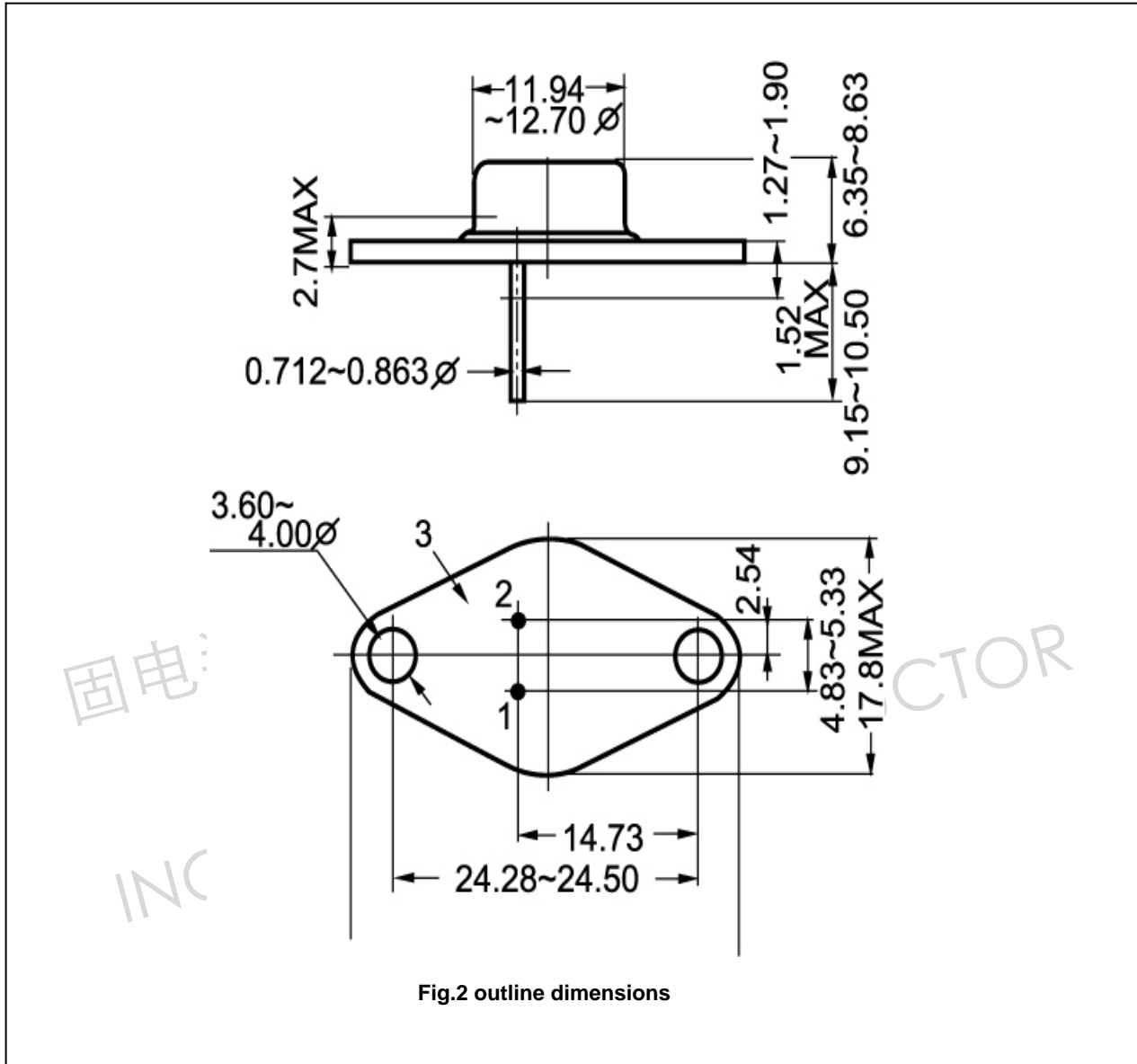


Fig.2 outline dimensions