

## Silicon NPN Power Transistors

## 2N6326 2N6327 2N6328

## DESCRIPTION

- With TO-3 package
- Low collector saturation voltage
- High DC current gain

## APPLICATIONS

- Designed for audio amplifier and switching circuits applications

## PINNING

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

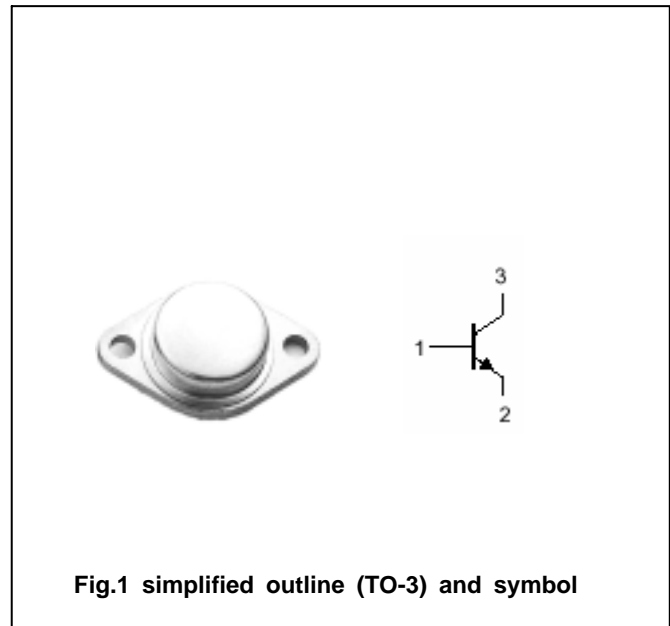


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings( $T_a =$ )

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$V_{CBO}$	Collector-base voltage	2N6326	60	V
		2N6327	80	
		2N6328	100	
$V_{CEO}$	Collector-emitter voltage	2N6326	60	V
		2N6327	80	
		2N6328	100	
$V_{EBO}$	Emitter-base voltage	Open collector	5	V
$I_C$	Collector current		30	A
$I_B$	Base current		7.5	A
$P_D$	Total power dissipation	$T_C = 25$	200	W
$T_j$	Junction temperature		200	
$T_{stg}$	Storage temperature		-65~200	

## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
$R_{th\ j-c}$	Thermal resistance junction to case	0.875	/W

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## CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>CEO(SUS)</sub>	Collector-emitter sustaining voltage	2N6326	I <sub>C</sub> =0.2 A ; I <sub>B</sub> =0			V
		2N6327				
		2N6328				
V <sub>CEsat</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =15A; I <sub>B</sub> =1.5A			1.2	V
V <sub>BEsat</sub>	Base-emitter saturation voltage	I <sub>C</sub> =15A; I <sub>B</sub> =1.5A			1.5	V
V <sub>BE</sub>	Base-emitter on voltage	I <sub>C</sub> =8A ; V <sub>CE</sub> =4V			1.5	V
I <sub>CBO</sub>	Collector cut-off current	2N6326				mA
		2N6327				
		2N6328				
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =4V; I <sub>C</sub> =0			1.0	mA
h <sub>FE-1</sub>	DC current gain	I <sub>C</sub> =8A ; V <sub>CE</sub> =4V	25			
h <sub>FE-2</sub>	DC current gain	I <sub>C</sub> =30A ; V <sub>CE</sub> =4V	6		30	
f <sub>T</sub>	Transition frequency	I <sub>C</sub> =1A ; V <sub>CE</sub> =10V; f=1.0MHz	3			MHz

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PACKAGE OUTLINE

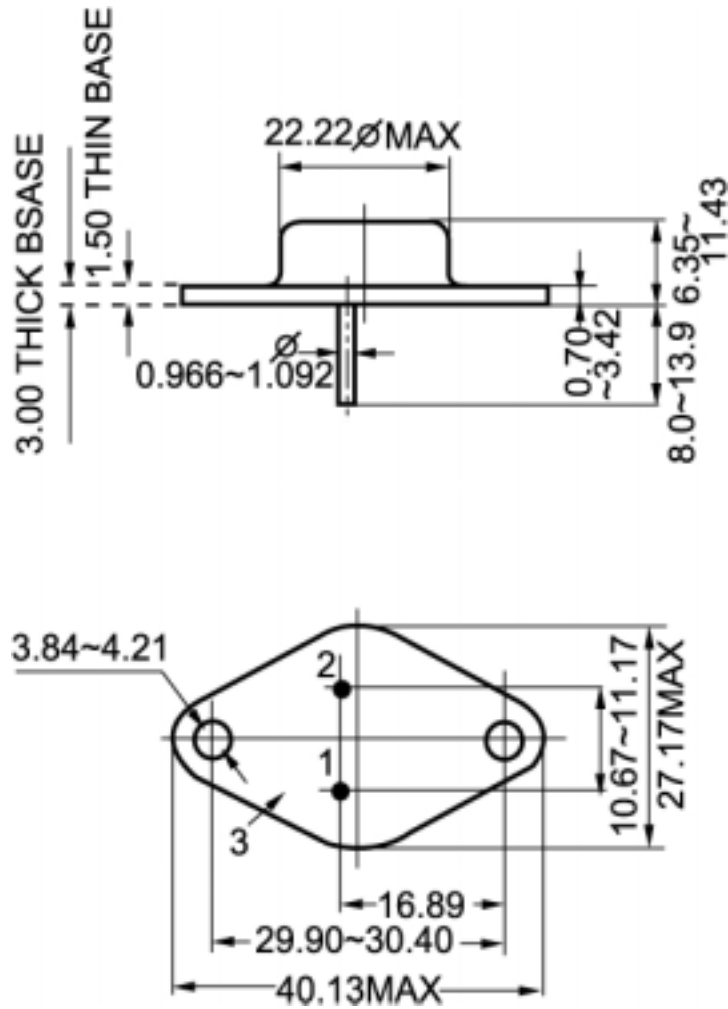


Fig.2 outline dimensions (unindicated tolerance:  $\pm 0.1$ mm)