

Silicon PNP Power Transistors

2N6226 2N6227 2N6228

DESCRIPTION

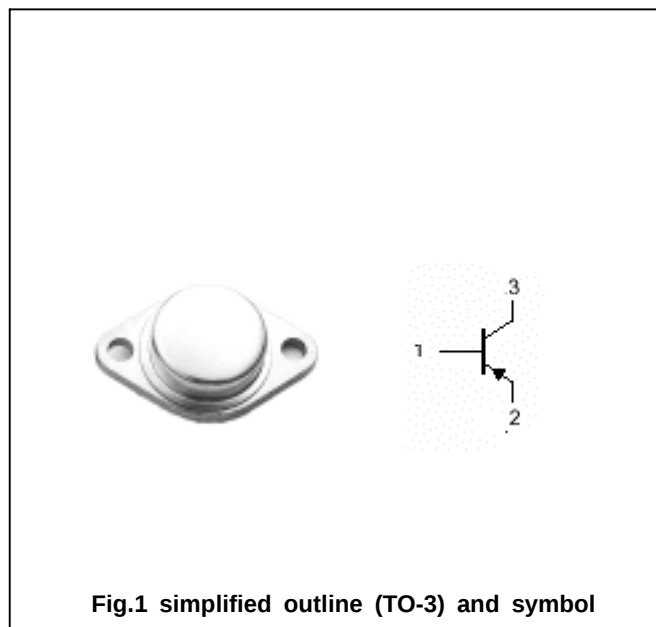
- With TO-3 package
- Low collector saturation voltage
- Excellent safe operating area

APPLICATIONS

- For high power audio;stepping motor and other linear applications

PINNING

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

Absolute maximum ratings($T_a =$)

SYMBOL	PARAMETER		CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	2N6226	Open emitter	100	V
		2N6227		120	
		2N6228		140	
V_{CEO}	Collector-emitter voltage	2N6226	Open base	100	V
		2N6227		120	
		2N6228		140	
V_{EBO}	Emitter-base voltage		Open collector	7	V
I_C	Collector current			6	A
P_D	Total power dissipation		$T_C=25$	150	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	0.92	/W

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CHARACTERISTICS

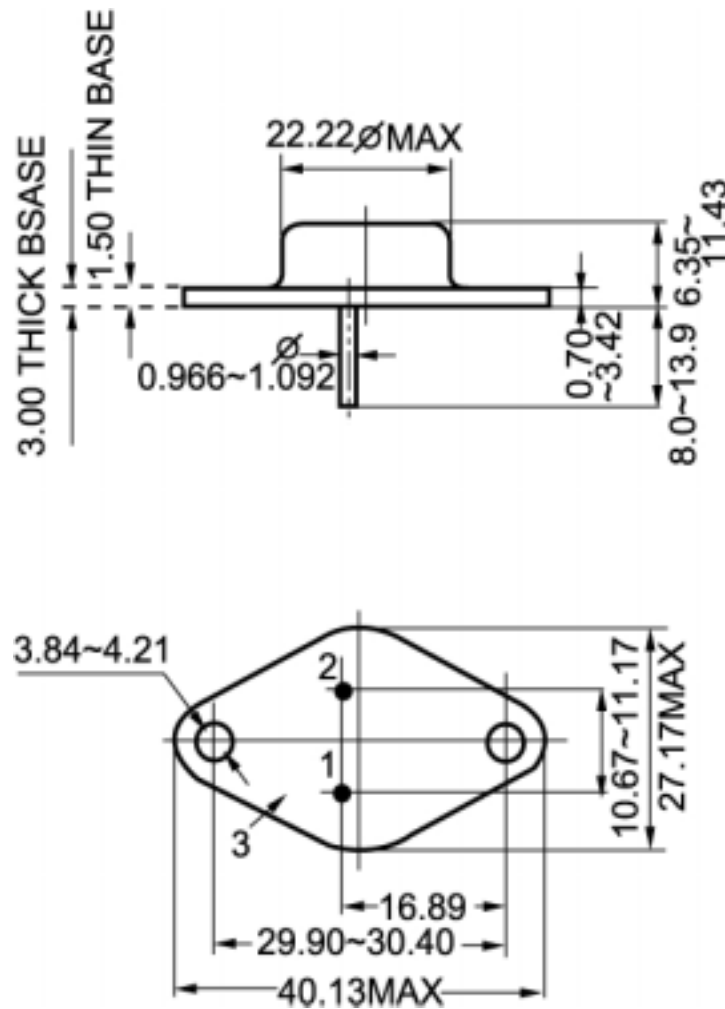
T_j=25 unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO}	Collector-emitter sustaining voltage	2N6226	I _C =0.2A ; I _B =0	100			V
		2N6227		120			
		2N6228		140			
V _{CEsat}	Collector-emitter saturation voltage		I _C =4A ; I _B =0.4A			1.2	V
V _{BE}	Base-emitter on voltage		I _C =3A ; V _{CE} =2V			1.8	V
I _{CEO}	Collector cut-off current		V _{CE} =Rated V _{CEO} ; I _B =0			5.0	mA
I _{CBO}	Collector cut-off current		V _{CB} =Rated V _{CBO} ; I _E =0			1.0	mA
I _{EBO}	Emitter cut-off current		V _{EB} =7V ; I _C =0			0.1	mA
h _{FE}	DC current gain	2N6226	I _C =3A ; V _{CE} =2V	25		100	
		2N6227		20		80	
		2N6228		15		60	
f _T	Transition frequency		I _C =0.5A ; V _{CE} =4V	1			MHz

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PACKAGE OUTLINE

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