

Silicon NPN Power Transistors

2N3234

DESCRIPTION

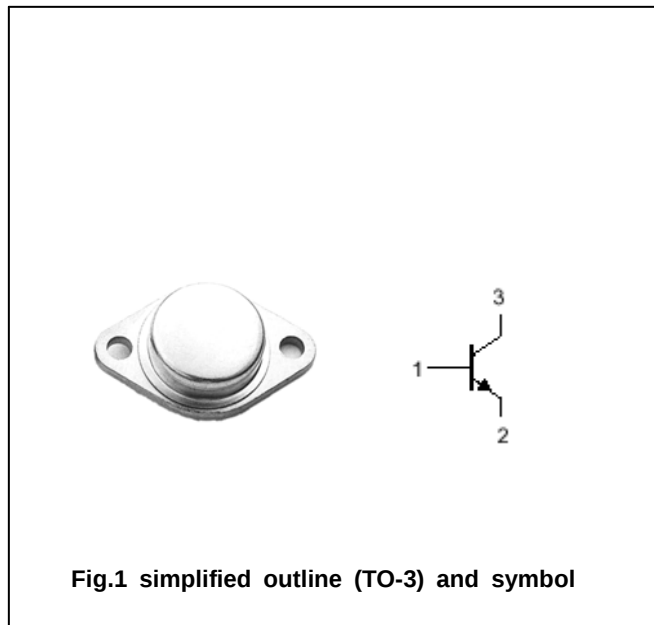
- With TO-3 package
- Excellent safe operating area
- Low collector saturation voltage

APPLICATIONS

- For audio amplifier and power switching applications

PINNING

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}\text{C}$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	160	V
V_{CEO}	Collector-emitter voltage	Open base	160	V
V_{EBO}	Emitter-base voltage	Open collector	7	V
I_C	Collector current		7.5	A
P_C	Collector power dissipation	$T_C=25^{\circ}\text{C}$	115	W
T_j	Junction temperature		150	$^{\circ}\text{C}$
T_{stg}	Storage temperature		-65~200	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
$R_{(th) jc}$	Thermal resistance junction to case	1.17	$^{\circ}\text{C/W}$

Silicon NPN Power Transistors**2N3234****CHARACTERISTICS****T_j=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =30mA ; I _B =0	160			V
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =5A ; I _B =0.5A			1.0	V
V _{BE(on)}	Base-emitter on voltage	I _C =3A ; V _{CE} =4V			1.5	V
I _{CEO}	Collector cut-off current	V _{CE} =80V; I _B =0			0.7	mA
I _{CBO}	Collector cut-off current	V _{CB} =160V; I _E =0			0.1	mA
I _{EBO}	Emitter cut-off current	V _{EB} =7V; I _C =0			0.1	mA
h _{FE}	DC current gain	I _C =5A ; V _{CE} =10V	18		55	

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PACKAGE OUTLINE

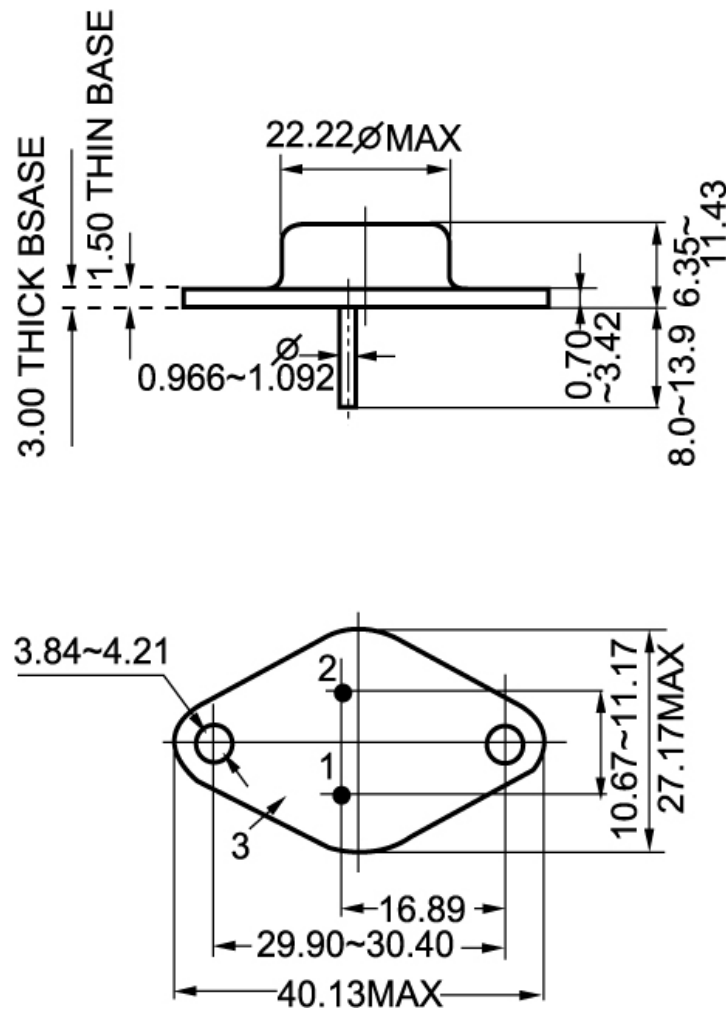


Fig.2 outline dimensions (unindicated tolerance: $\pm 0.1\text{mm}$)