

Silicon PNP Power Transistors

2SA650

DESCRIPTION

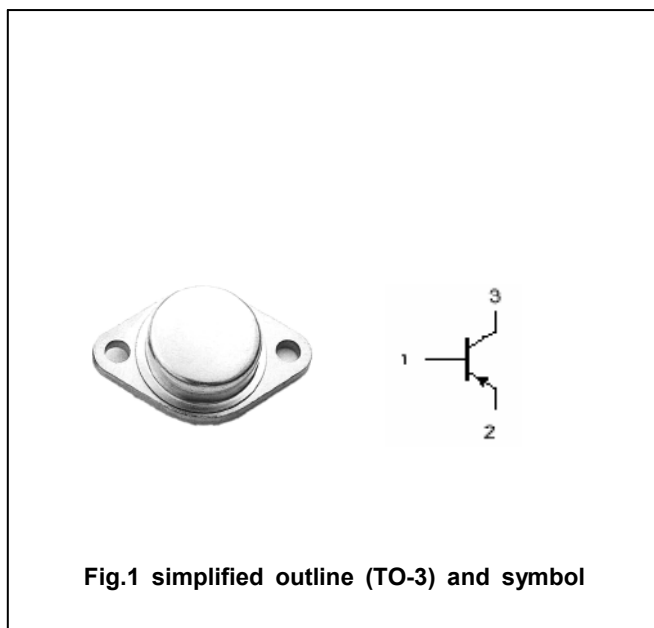
- With TO-3 package
- Wide area of safe operation

APPLICATIONS

- For audio frequency and power amplifier applications

PINNING(see Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

Absolute maximum ratings($T_a = \square$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-150	V
V_{CEO}	Collector-emitter voltage	Open base	-150	V
V_{EBO}	Emitter-base voltage	Open collector	-6	V
I_C	Collector current		-10	A
P_C	Collector power dissipation	$T_C = 25 \square$	100	W
T_j	Junction temperature		150	$\square$
T_{stg}	Storage temperature		-55~150	$\square$

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CHARACTERISTICS

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C = -25mA ; I_B = 0$	-150			V
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C = -1mA ; I_E = 0$	-150			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E = -1mA ; I_C = 0$	-6			V
V_{CEsat}	Collector-emitter saturation voltage	$I_C = -5A ; I_B = -0.5A$			-2.0	V
V_{BEsat}	Base-emitter saturation voltage	$I_C = -5A ; I_B = -0.5A$			-2.5	V
I_{CBO}	Collector cut-off current	$V_{CB} = -150V ; I_E = 0$			-0.1	mA
I_{EBO}	Emitter cut-off current	$V_{EB} = -6V ; I_C = 0$			-0.1	mA
h_{FE}	DC current gain	$I_C = -2A ; V_{CE} = -5V$	30		150	
C_{OB}	Collector output capacitance	$I_E = 0 ; V_{CB} = -10V ; f = 1MHz$		500		pF
f_T	Transition frequency	$I_C = -1A ; V_{CE} = -5V$		10		MHz

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PACKAGE OUTLINE

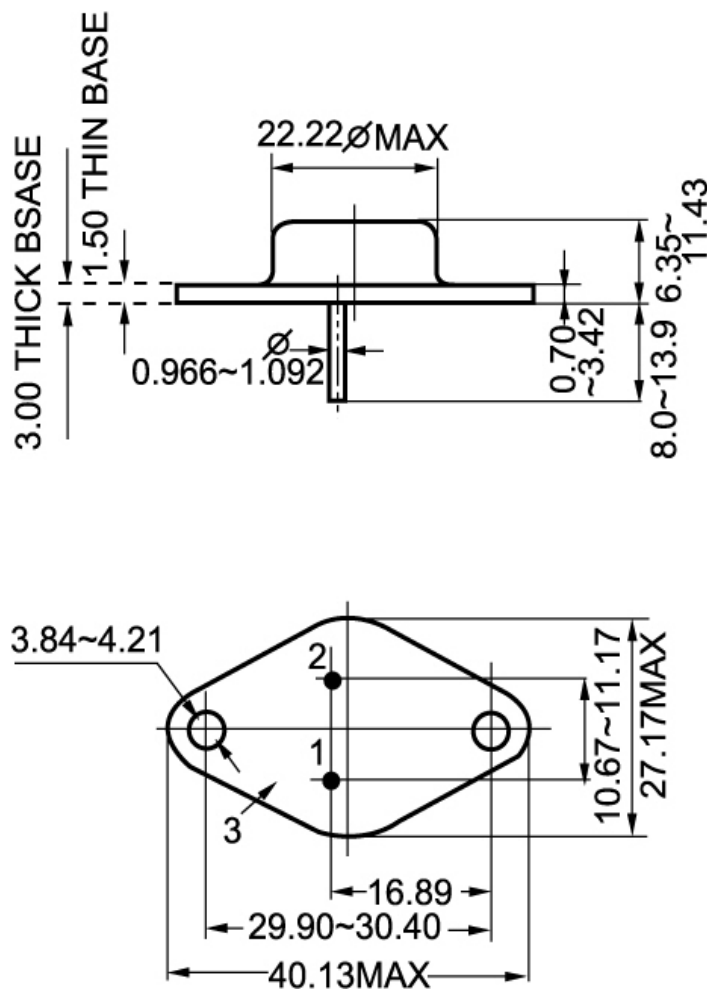


Fig.2 outline dimensions (unindicated tolerance:±0.1mm)