

Silicon PNP Power Transistors

2SA753

DESCRIPTION

- With TO-3 package
- Wide area of safe operation
- Complement to type 2SC1343

APPLICATIONS

- For 100W audio amplifier power output applications

PINNING(see Fig.2)

PIN	DESCRIPTION
1	Base
2	Emitter
3	Collector

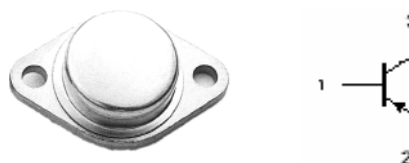


Fig.1 simplified outline (TO-3) and symbol

Absolute maximum ratings($T_a = \square$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-140	V
V_{CEO}	Collector-emitter voltage	Open base	-110	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-10	A
I_{CM}	Collector current-peak		-12	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	$I_C = -50mA ; R_{BE} = \infty$	-110			V
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C = -5mA ; I_E = 0$	-140			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E = -5mA ; I_C = 0$	-5			V
V_{CEsat}	Collector-emitter saturation voltage	$I_C = -5A ; I_B = -1A$			-1.5	V
V_{BE}	Base-emitter on voltage	$I_C = -1A ; V_{CE} = -5V$			-1.5	V
I_{CBO}	Collector cut-off current	$V_{CB} = -30V ; I_E = 0$			-1	mA
h_{FE-1}	DC current gain	$I_C = -1A ; V_{CE} = -5V$	30		200	
h_{FE-2}	DC current gain	$I_C = -10A ; V_{CE} = -5V$	15			
f_T	Transition frequency	$I_C = -1A ; V_{CE} = -5V$		20		MHz

◆ h_{FE-1} Classifications

A	B	C
30-60	50-120	100-200

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PACKAGE OUTLINE

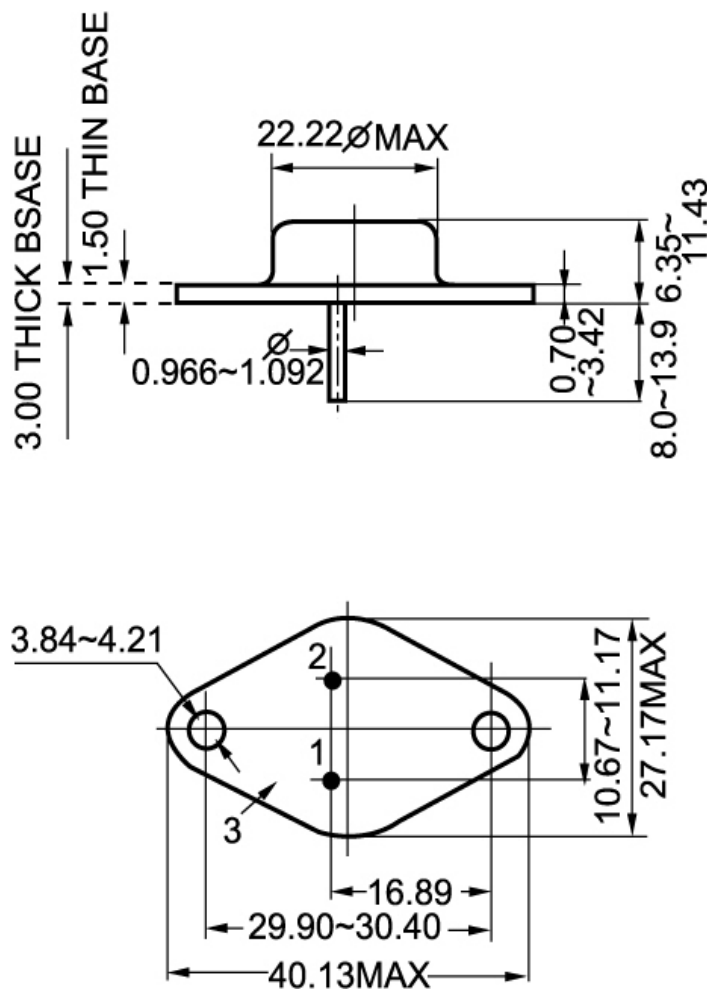


Fig.2 outline dimensions (unindicated tolerance:±0.1mm)