

Silicon NPN Power Transistors

2SB1037

DESCRIPTION

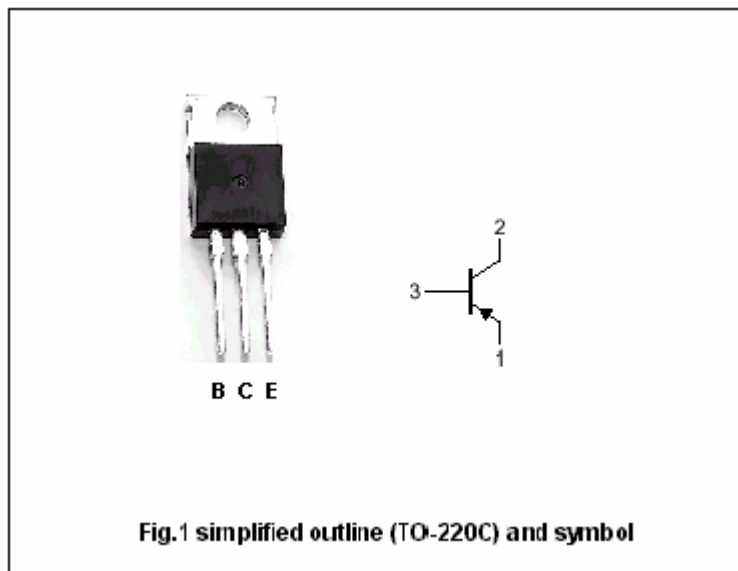
- With TO-220 package
- High allowable collector dissipation.
- Complement to type 2SD1459

APPLICATIONS

- For color TV vertical output, sound output applications

PINNING

PIN	DESCRIPTION
1	Emitter
2	Collector;connected to mounting base
3	Base



Absolute maximum ratings (Ta=25)

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	-5	V
I_C	Collector current		-1.5	A
I_{CM}	Collector current-peak		-3	A
P_C	Collector power dissipation		2.0	W
		$T_C=25$	30	
T_j	Junction temperature		175	
T_{stg}	Storage temperature		-55~175	

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CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-10mA ; I _B =0	-150			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-0.5A, I _B =-50mA			-1.5	V
V _{BEsat}	Base-emitter saturation voltage	I _C =-0.5A, I _B =-50mA			-1.2	V
I _{CBO}	Collector cut-offcurrent	V _{CB} =-120V; I _E =0			-10	μ A
I _{EBO}	Emitter cut-offcurrent	V _{EB} =-5V; I _C =0			-10	μ A
h _{FE}	DC current gain	I _C =-0.3A ; V _{CE} =-5V	70		200	
f _T	Transition frequency	I _C =-0.1A ; V _{CE} =-5V		15		MHz

◆ h_{FE} classifications

Q	R
70-140	100-200

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PACKAGE OUTLINE

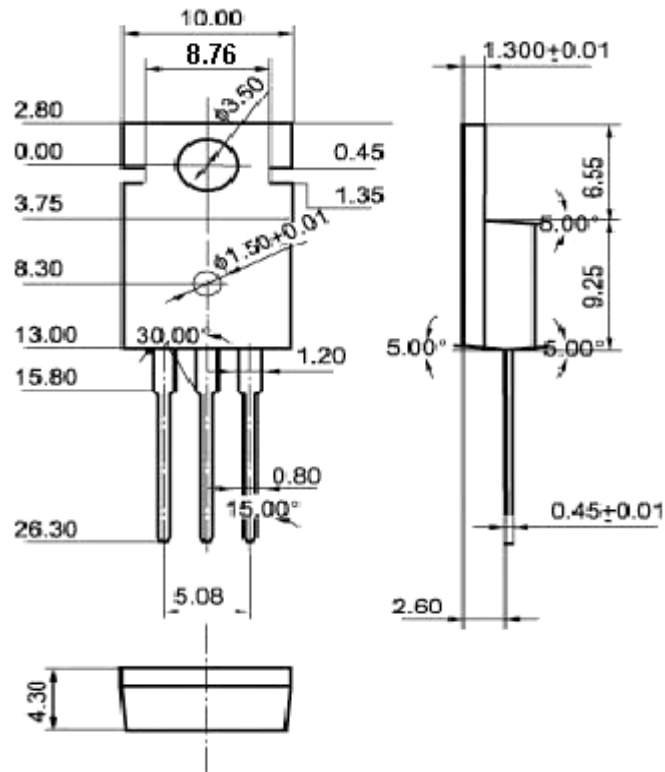


Fig.2 outline dimensions (unindicated tolerance: ± 0.10 mm)

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