

Silicon NPN Power Transistors

2SD1459

DESCRIPTION

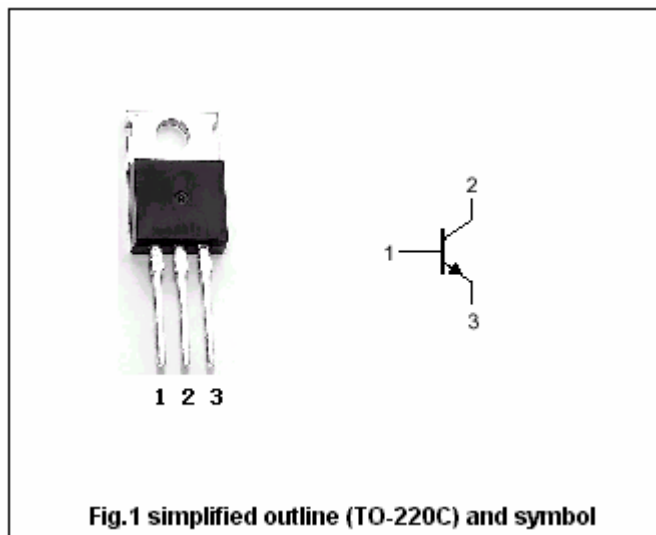
- With TO-220 package
- High allowable collector dissipation.
- Complement to type 2SB1037

APPLICATIONS

- Color TV vertical output application
- Sound output application

PINNING

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



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		3.0	A
P_C	Collector power dissipation		2.0	W
		$T_C=25^\circ\text{C}$	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	μA
I _{EBO}	Emitter cut-offcurrent	V _{EB} =5V; I _C =0			10	μA
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		8		MHz

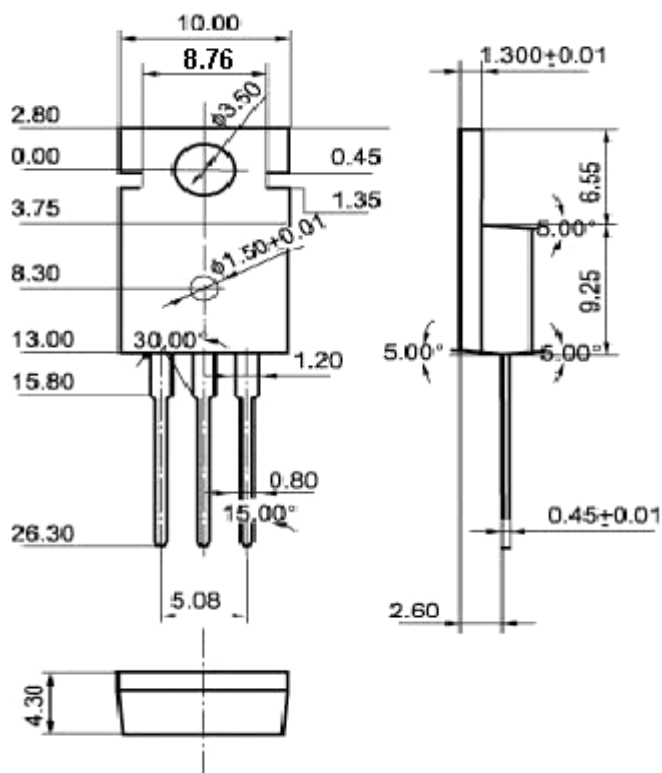
◆ h_{FE} classifications

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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