

Silicon PNP Power Transistors

2SB546

DESCRIPTION

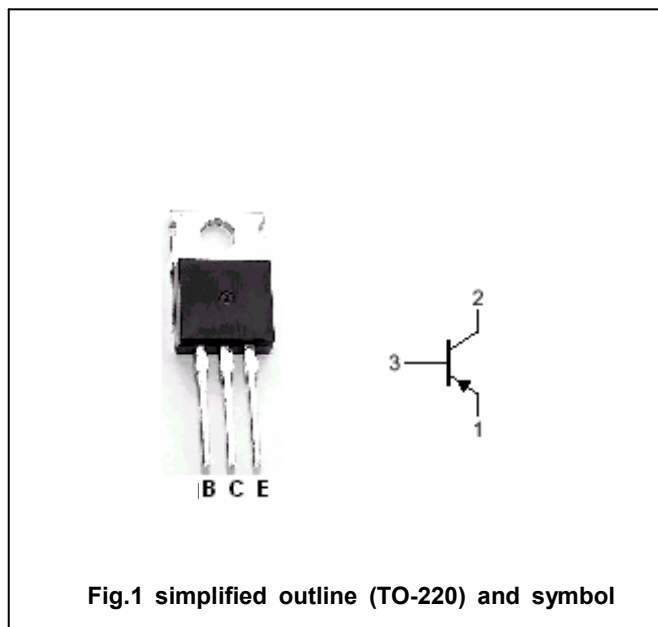
- With TO-220C package
- Complement to type 2SD401
- Collector current $I_C = -2A$
- Collector-base voltage $V_{CBO} = -200V$

APPLICATIONS

- For use in general purpose power amplifier, vertical output application

PINNING

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

Absolute maximum ratings ($T_a = 25^\circ C$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-200	V
V_{CEO}	Collector-emitter voltage	Open base	-150	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-2	A
P_C	Collector power dissipation	$T_C = 25^\circ C$	25	W
T_j	Junction temperature		150	$^\circ C$
T_{stg}	Storage temperature		-55~150	$^\circ C$

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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	$I_C=-10mA; I_B=0$	-150			V
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C=-0.5mA; I_E=0$	-200			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E=-0.5mA; I_B=0$	-5			V
V_{CEsat}	Collector-emitter saturation voltage	$I_C=-500mA; I_B=-50mA$			-1.0	V
I_{CBO}	Collector cut-off current	$V_{CB}=-150V; I_E=0$			-50	μA
I_{EBO}	Emitter cut-off current	$V_{EB}=-5V; I_C=0$			-50	μA
h_{FE}	DC current gain	$I_C=-0.4A; V_{CE}=-10V$	40		240	
f_T	Transition frequency	$I_C=-0.4A; V_{CE}=-10V$		5		MHz

◆ h_{FE} classifications

R	O	Y
40-80	70-140	120-240

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PACKAGE OUTLINE

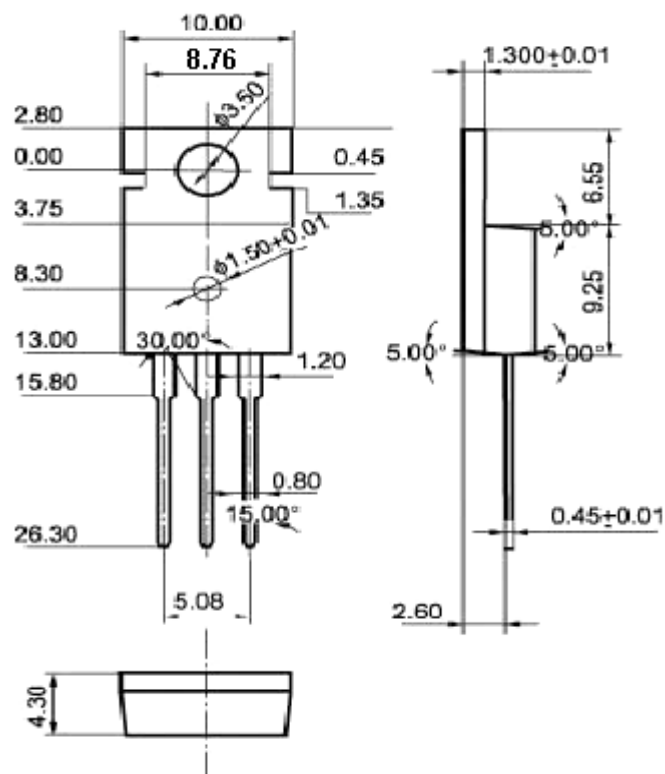


Fig.2 Outline dimensions (unindicated tolerance:±0.10 mm)

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