

Silicon PNP Power Transistors**2SB1033****DESCRIPTION**

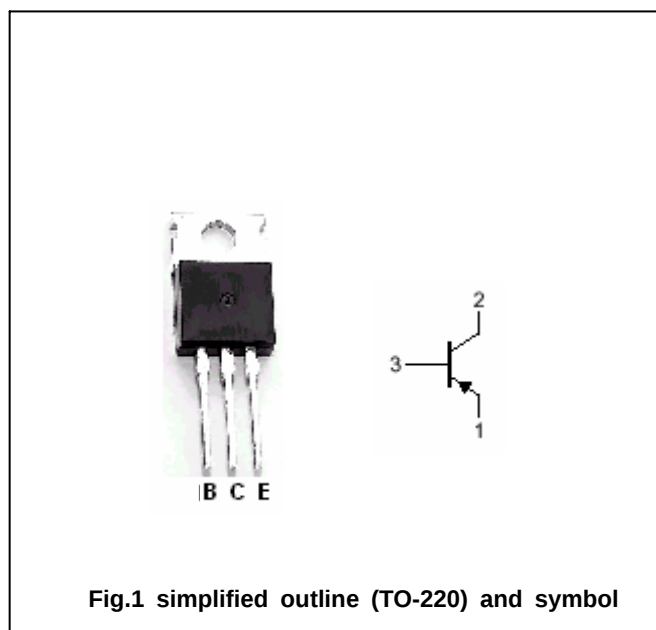
- With TO-220 package
- Complement to type 2SD1437

APPLICATIONS

- For low frequency power amplifier applications

PINNING

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

**Absolute maximum ratings($T_a=25^\circ\text{C}$)**

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-60	V
V_{CEO}	Collector-emitter voltage	Open base	-60	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-3	A
P_T	Total power dissipation	$T_C=25$	40	W
T_j	Junction temperature		150	
T_{stg}	Storage temperature		-55~150	

Silicon PNP Power Transistors

2SB1033

CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Base-emitter breakdown voltage	I _C =-25mA, I _B =0	-60			V
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-1mA, I _E =0	-60			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-1mA, I _C =0	-5			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-2A; I _B =-0.2A			-1.5	V
V _{BEsat}	Base-emitter saturation voltage	I _C =-2A; I _B =-0.2A			-1.5	V
I _{CBO}	Collector cut-off current	V _{CB} =-60V; I _E =0			-10	μA
I _{EBO}	Emitter cut-off current	V _{EB} =-5V; I _C =0			-10	μA
h _{FE}	DC current gain	I _C =-0.5A; V _{CE} =-5V	60		320	
f _T	Transition frequency	I _C =-0.5A; V _{CE} =-5V		12		MHz
C _{ob}	Output capacitance	I _E =0; V _{CB} =-10V; f=1MHz		100		pF

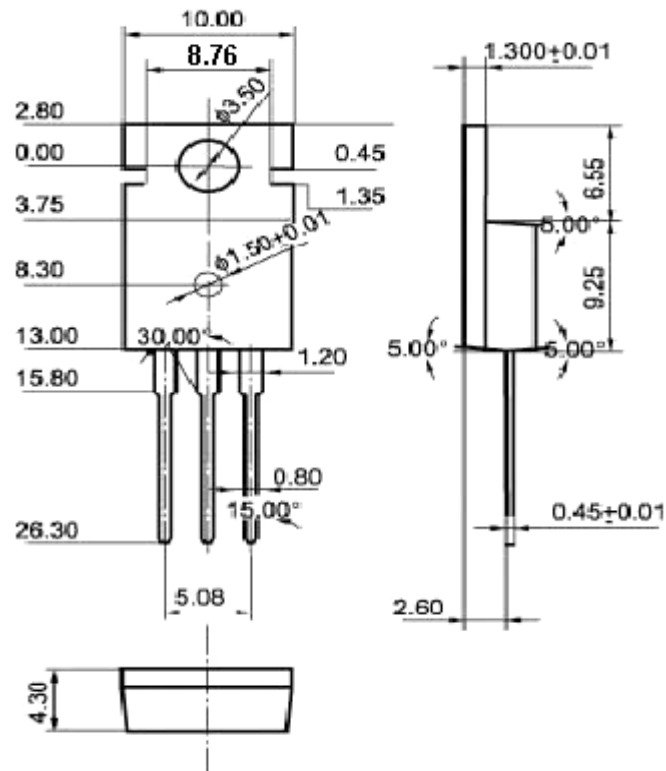
◆ h_{FE} Classifications

D	E	F
60-120	100-200	160-320

Silicon PNP Power Transistors

2SB1033

PACKAGE OUTLINE

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