

Silicon PNP Power Transistors

2SB1187

DESCRIPTION

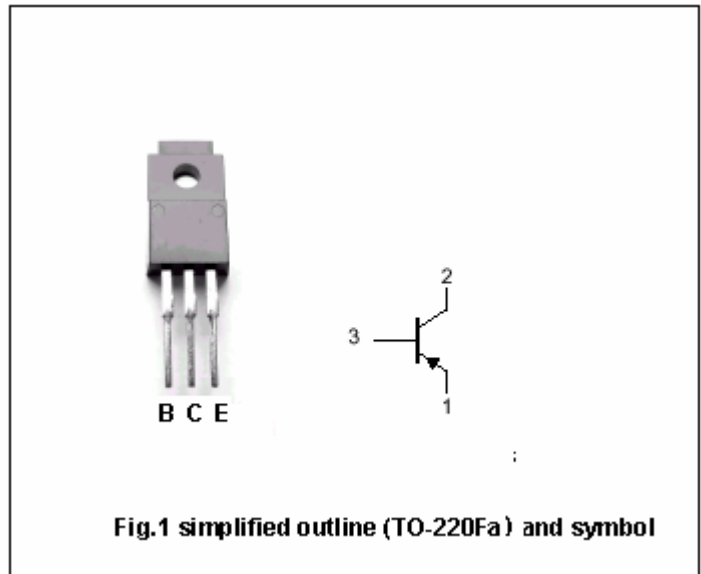
- With TO-220Fa package
- Low saturation voltage
- Complement to type 2SD1761
- Excellent DC current gain characteristics
- Wide safe operating area

APPLICATIONS

- For low frequency power amplifier applications

PINNING

PIN	DESCRIPTION
1	Emitter
2	Collector
3	Base

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

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-80	V
V_{CEO}	Collector-emitter voltage	Open base	-60	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current (DC)		-3	A
I_{CM}	Collector current-Peak		-6	A
P_C	Collector power dissipation	$T_C=25^\circ\text{C}$	30	W
		$T_a=25^\circ\text{C}$	2	
T_j	Junction temperature		150	$^\circ\text{C}$
T_{stg}	Storage temperature		-55~150	$^\circ\text{C}$

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CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-1mA, I _B =0	-60			V
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-50μA, I _E =0	-80			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-50μA, I _C =0	-5			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-2A; I _B =-0.2A			-1.0	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} =-4V; 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

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PACKAGE OUTLINE

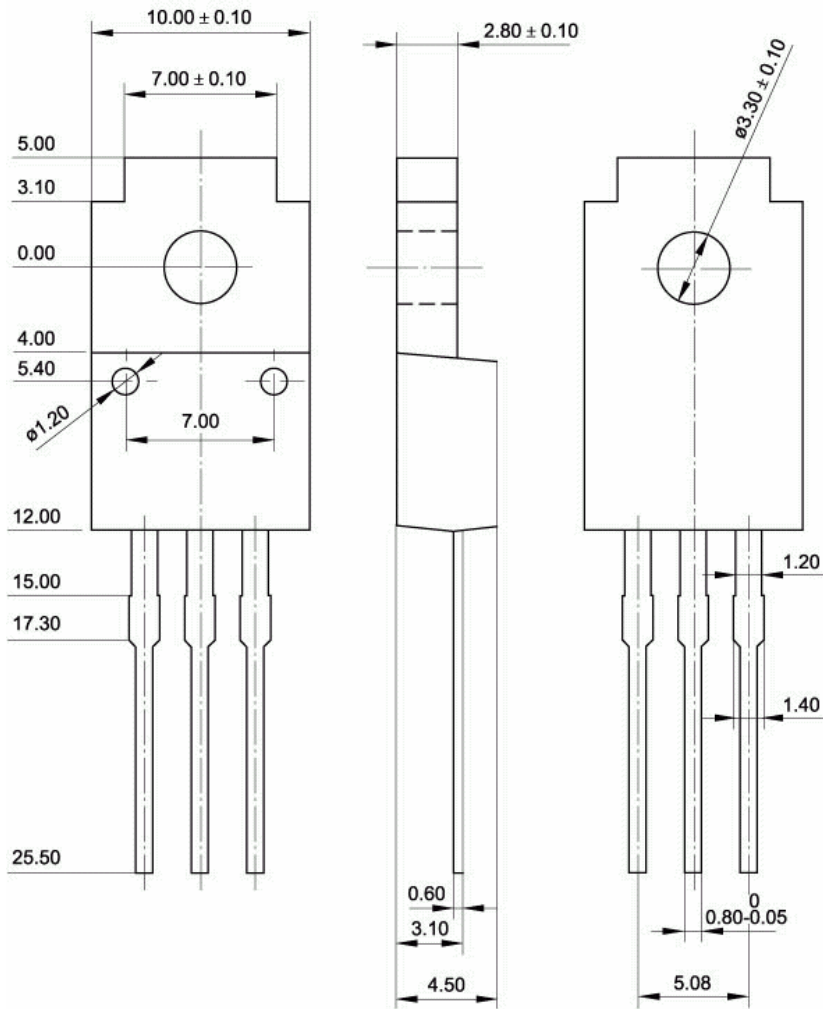


Fig.2 Outline dimensions (unindicated tolerance: ± 0.15 mm)