

Silicon PNP Power Transistors

2SB757

DESCRIPTION

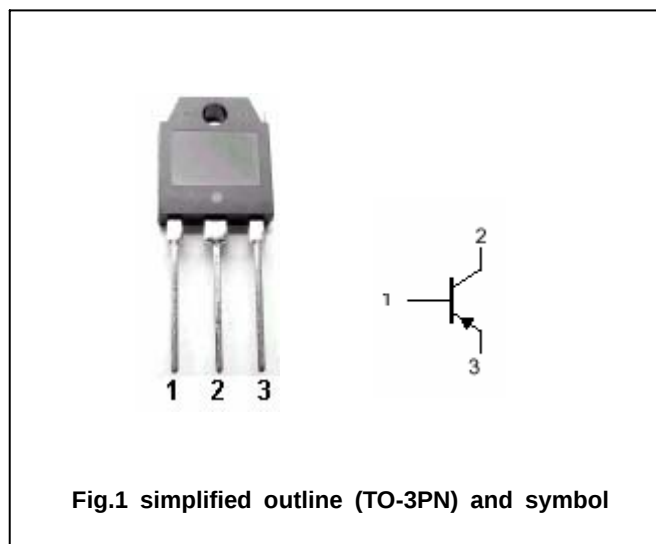
- With TO-3PN package
- High collector current
- Wide area of safe operation
- Complement to type 2SD847

APPLICATIONS

- Audio amplifications
- Serie regulators
- General purpose power amplifiers

PINNING

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

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

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-40	V
V_{CEO}	Collector-emitter voltage	Open base	-40	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-15	A
I_B	Base current		-5	A
P_C	Collector power dissipation	$T_c=25$	80	W
T_j	Junction temperature		150	
T_{stg}	Storage temperature		-55~150	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	VALUE	UNIT
$R_{th\ j-c}$	Thermal resistance from junction to case	1.56	/W

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CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-0.1mA; I _E =0	-40			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-10mA; I _B =0	-40			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-0.1mA; I _C =0	-5			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-5A; I _B =-0.5A			-0.8	V
V _{BEsat}	Base-emitter on voltage	I _C =-5A; I _B =-0.5A			-1.8	V
I _{CBO}	Collector cut-off current	V _{CB} =-40V; I _E =0			-10	μ A
I _{EBO}	Emitter cut-off current	V _{EB} =-5V; I _C =0			-100	μ A
h _{FE}	DC current gain	I _C =-5A ; V _{CE} =-2V	40		240	

Switching times

t _{on}	Turn-on time	I _C =-15A; I _{B1} =-I _{B2} =-1.5A R _L =2Ω ; P _W =20 μ s, Duty ≤ 2%			1.0	μ s
t _s	Storage time				2.0	μ s
t _f	Fall time				1.0	μ s

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Technical drawing of a component showing outline dimensions. The drawing includes a front view on the left and a side view on the right. The front view shows a rectangular component with a central circular feature and four smaller circular features. Dimensions include overall width (15.60), overall height (42.60), and various internal dimensions. The side view shows the component's profile with dimensions for width (4.80), height (17.00), and base dimensions. Tolerances are specified for several dimensions, such as 2.00 ± 0.005 and 0.60 ± 0.005 .