

Silicon PNP Power Transistors

2SB1478

DESCRIPTION

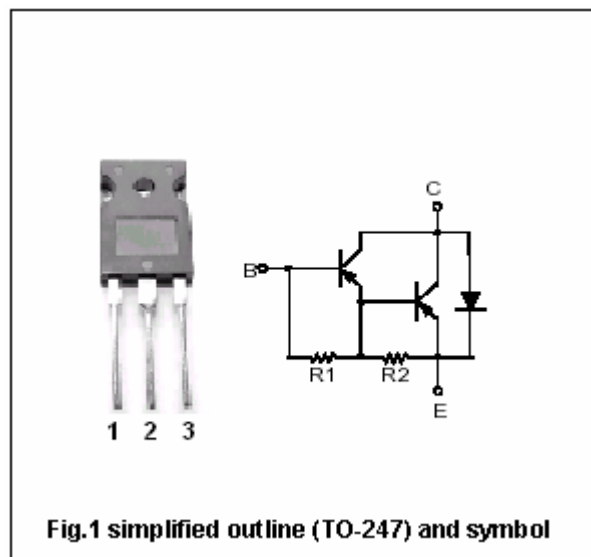
- With TO-247 package
- Complement to type 2SD2237
- High DC current gain
- DARLINGTON

APPLICATIONS

- For use in power linear and switching applications

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	-100	V
V_{CEO}	Collector-emitter voltage	Open base	-100	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-8	A
P_C	Collector power dissipation	$T_C=25^\circ\text{C}$	60	W
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 =-10mA; I _B =0	-100			V
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-0.1mA; I _E =0	-100			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-2mA; I _C =0	-5			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-5A; I _B =-20mA			-2.0	V
V _{BEsat}	Base-emitter saturation voltage	I _C =-5A; I _B =-20mA			-2.5	V
I _{CBO}	Collector cut-off current	V _{CB} =-100V; I _E =0			-10	μA
I _{EBO}	Emitter cut-off current	V _{EB} =-5V; I _C =0			-2	mA
h _{FE}	DC current gain	I _C =-2A; V _{CE} =-3V	2000		20000	

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PACKAGE OUTLINE

