

Silicon PNP Power Transistors

2SB1105

DESCRIPTION

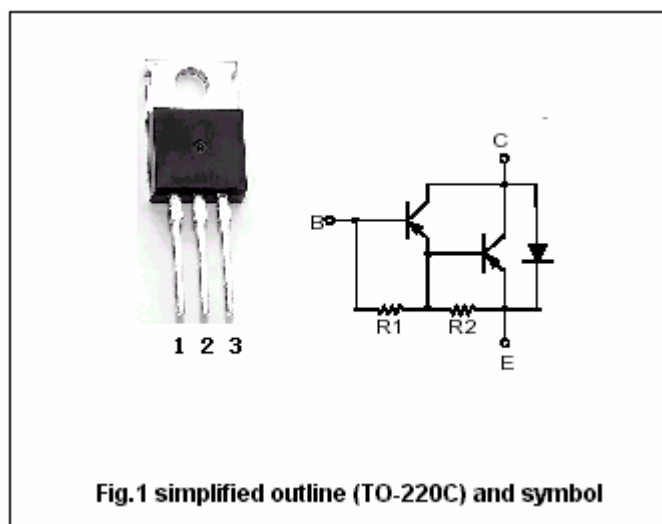
- With TO-220C package
- DARLINGTON
- High DC current gain
- Complement to type 2SD1605

APPLICATIONS

- Designed for use in low frequency power amplifier 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	-120	V
V_{CEO}	Collector-emitter voltage	Open base	-120	V
V_{EBO}	Emitter-base voltage	Open collector	-7	V
I_C	Collector current-DC		-3	A
P_C	Collector power dissipation	$T_C=25$	30	W
T_j	Junction temperature		150	
T_{stg}	Storage temperature		-55~150	

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CHARACTERISTICS

T_j=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-25mA, R _{BE} =∞	-120			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-50mA, I _C =0	-7			V
V _{CEsat-1}	Collector-emitter saturation voltage	I _C =-1.5A, I _B =-3mA			-1.5	V
V _{CEsat-2}	Collector-emitter saturation voltage	I _C =-3A, I _B =-30mA			-3.0	V
V _{BESat-1}	Base-emitter saturation voltage	I _C =-1.5A, I _B =-3mA			-2.0	V
V _{BESat-2}	Base-emitter saturation voltage	I _C =-3A, I _B =-30mA			-3.5	V
I _{CBO}	Collector cut-off current	V _{CB} =-120V, I _E =0			-100	μA
I _{CEO}	Collector cut-off current	V _{CE} =-100V, R _{BE} =∞			-10	μA
h _{FE}	DC current gain	I _C =-1.5A; V _{CE} =-3V	1000			
V _D	Diode forward voltage	I _D =-3A			3.0	V

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Fig.2 Outline dimensions