

Silicon PNP Power Transistors

2SB880

DESCRIPTION

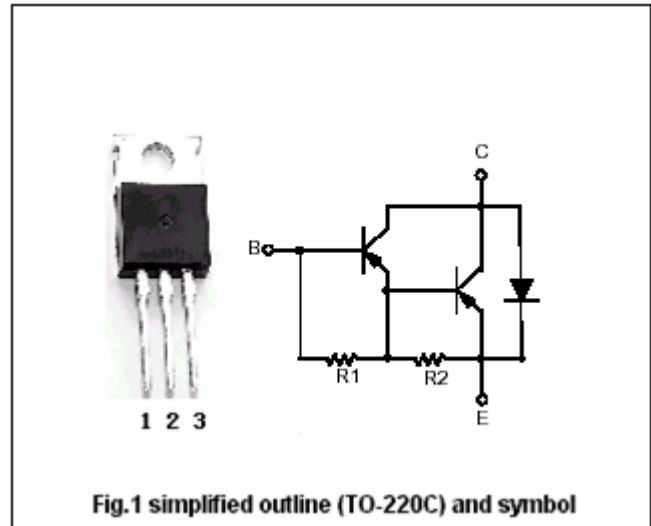
- With TO-220C package
- DARLINGTON
- High DC current gain
- Low collector saturation voltage
- Complement to type 2SD1190

APPLICATIONS

- Motor drivers,printer hammer drivers,relay drivers,voltage regulators

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	-70	V
V_{CEO}	Collector-emitter voltage	Open base	-60	V
V_{EBO}	Emitter-base voltage	Open collector	-6	V
I_C	Collector current		-4	A
I_{CM}	Collector current-peak		-6	A
P_C	Collector power dissipation	$T_c=25^\circ\text{C}$	30	W
		$T_a=25^\circ\text{C}$	1.75	
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 =-50mA, R _{BE} =∞	-60			V
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =-5mA, I _E =0	-70			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-2A, I _B =-4mA		-1.0	-1.5	V
V _{BEsat}	Base-emitter saturation voltage	I _C =-2A, I _B =-4mA			-2.0	V
I _{CBO}	Collector cut-off current	V _{CB} =-40V, I _E =0			-0.1	mA
I _{EBO}	Emitter cut-off current	V _{EB} =-5V, I _C =0			-3.0	mA
f _T	Transition frequency	I _C =-2A ; V _{CE} =-5V		20		MHz
h _{FE}	DC current gain	I _C =-2A ; V _{CE} =-2V	2000	5000		

Switching times

t _{on}	Turn-on time	I _C =-2A ; I _{B1} =-I _{B2} =-4mA V _{CC} =-20V, R _L =10Ω		0.5		μs
t _{stg}	Storage time			1.4		μs
t _f	Fall time			1.2		μs

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PACKAGE OUTLINE

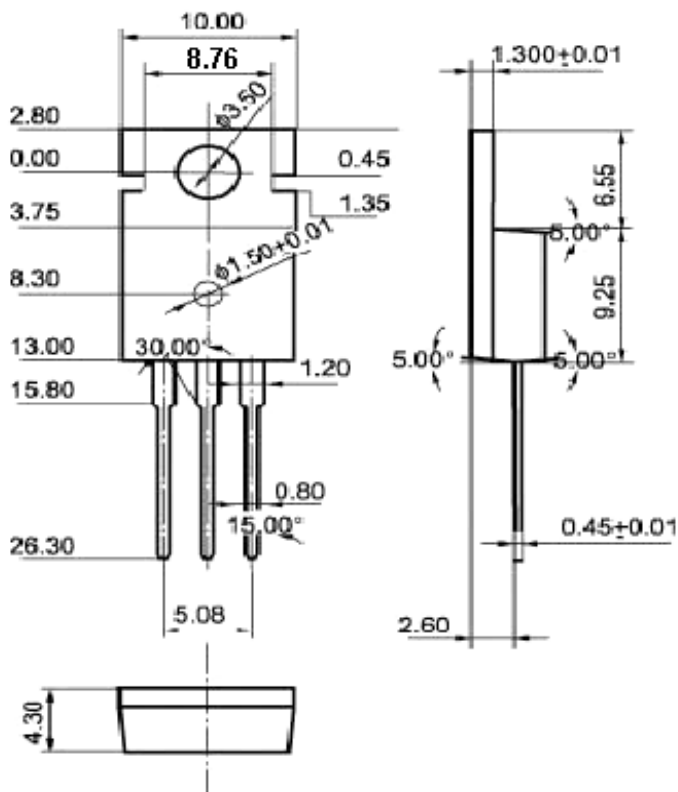


Fig.2 Outline dimensions