

## Silicon PNP Power Transistors

2SB1087

## DESCRIPTION

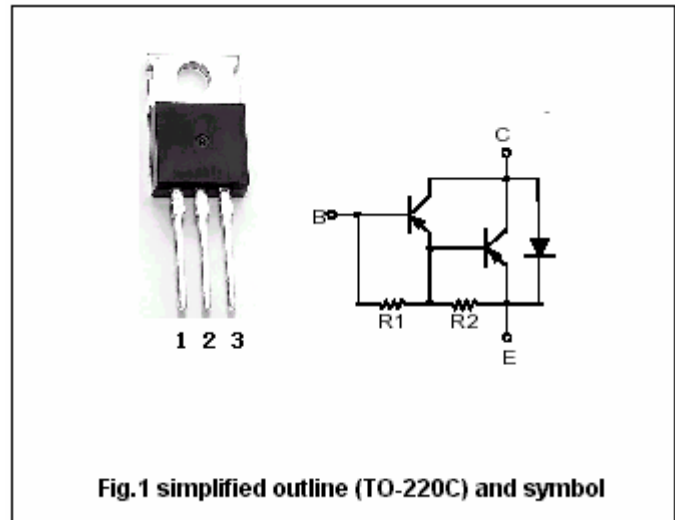
- With TO-220C package
- High DC current gain
- DARLINGTON

## APPLICATIONS

- For low frequency power amplifier and low speed power switching applications

## PINNING

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

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

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-DC		-5	A
$P_C$	Collector power dissipation	$T_a=25^\circ\text{C}$	1.5	W
		$T_C=25^\circ\text{C}$	30	
$T_j$	Junction temperature		150	$^\circ\text{C}$
$T_{stg}$	Storage temperature		-55~150	$^\circ\text{C}$

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## CHARACTERISTICS

T<sub>j</sub>=25 °C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V <sub>(BR)CEO</sub>	Collector-emitter breakdown voltage	I <sub>C</sub> =-30mA, I <sub>B</sub> =0	-100			V
V <sub>CEsat</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =-2A, I <sub>B</sub> =-2mA			-1.5	V
V <sub>BEsat</sub>	Base-emitter saturation voltage	I <sub>C</sub> =-2A, I <sub>B</sub> =-2mA			-2.0	V
I <sub>CBO</sub>	Collector cut-off current	V <sub>CB</sub> =-100V, I <sub>E</sub> =0			1	μA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =-5V, I <sub>C</sub> =0			-3	mA
h <sub>FE-1</sub>	DC current gain	I <sub>C</sub> =-2A, V <sub>CE</sub> =-5V	2000		20000	
h <sub>FE-2</sub>	DC current gain	I <sub>C</sub> =-5A, V <sub>CE</sub> =-5V	500			

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PACKAGE OUTLINE

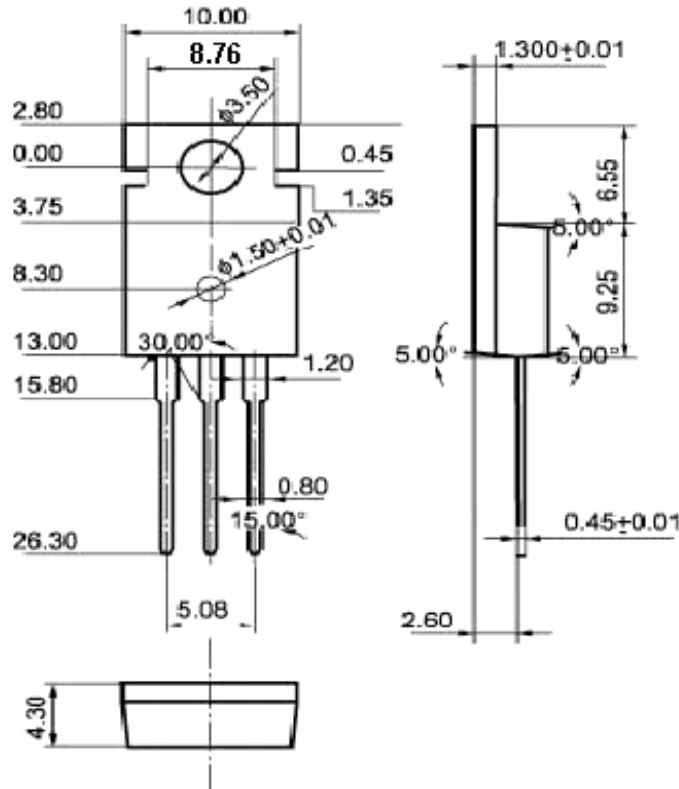


Fig.2 Outline dimensions