

## Silicon NPN Power Transistors

2SC2582

## DESCRIPTION

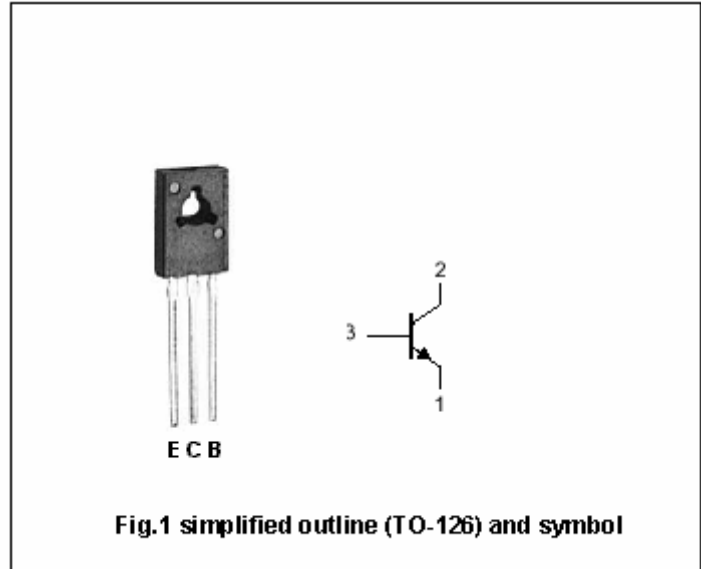
- With TO-126 package
- Large collector power dissipation
- High transition frequency

## APPLICATIONS

- Audio frequency power amplifier

## PINNING

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

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

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
$V_{CBO}$	Collector-base voltage		45	V
$V_{CEO}$	Collector- emitter voltage		35	V
$V_{EBO}$	Emitter-base voltage	Open collector	5	V
$I_C$	Collector current		1	A
$I_{CM}$	Collector current-peak		1.5	A
$P_C$	Collector power dissipation	$T_a=25^\circ\text{C}$	1.2	W
		$T_C=25^\circ\text{C}$	10	
$T_j$	Junction temperature		150	$^\circ\text{C}$
$T_{stg}$	Storage temperature		$-55^\circ\text{C}+150^\circ\text{C}$	$^\circ\text{C}$

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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> =2mA ; I <sub>B</sub> =0	35			V
V <sub>(BR)CBO</sub>	Collector-base breakdown voltage	I <sub>C</sub> =1mA ; I <sub>E</sub> =0	45			V
V <sub>CEsat</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =500mA ; I <sub>B</sub> =50mA			0.5	V
I <sub>CEO</sub>	Collector cut-off current	V <sub>CE</sub> =20V ; I <sub>B</sub> =0			100	μA
I <sub>CBO</sub>	Collector cut-off current	V <sub>CB</sub> =20V ; I <sub>E</sub> =0			0.1	μA
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =5V ; I <sub>C</sub> =0			10	μA
h <sub>FE-1</sub>	DC current gain	I <sub>C</sub> =500mA ; V <sub>CE</sub> =10V	85		340	
h <sub>FE-2</sub>	DC current gain	I <sub>C</sub> =1A ; V <sub>CE</sub> =5V	50			
C <sub>OB</sub>	Output capacitance	I <sub>E</sub> =0 ; V <sub>CB</sub> =10V ; f=1MHz			20	pF
f <sub>T</sub>	Transition frequency	I <sub>C</sub> =50mA ; V <sub>CE</sub> =10V		200		MHz

◆ h<sub>FE-1</sub> Classifications

Q	R	S
85-170	120-240	170-340

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PACKAGE OUTLINE

