

## Silicon NPN Power Transistors

## 2SC1567 2SC1567A

## DESCRIPTION

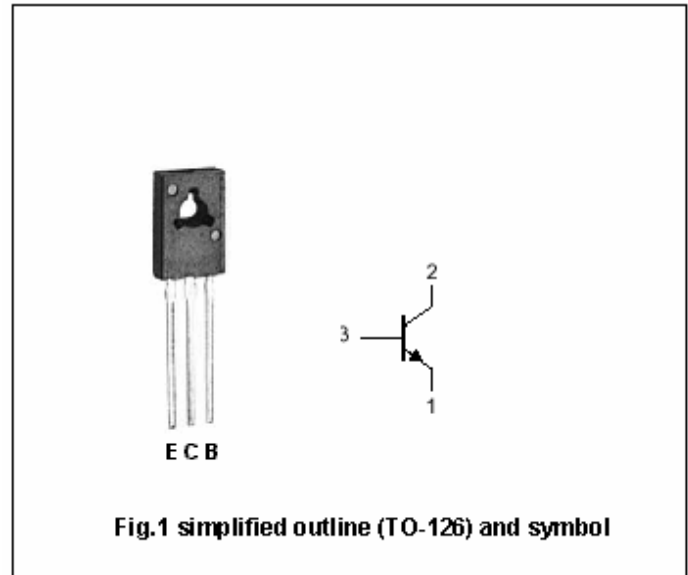
- With TO-126 package
- Complement to type 2SA794/794A
- High collector to emitter voltage  $V_{CEO}$

## APPLICATIONS

- For low-frequency high power driver applications
- Optimum for the driver stage of low-frequency and 40 W to 100 W output 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	2SC1567	100	V
		2SC1567A	120	
$V_{CEO}$	Collector- emitter voltage	2SC1567	100	V
		2SC1567A	120	
$V_{EBO}$	Emitter-base voltage	Open collector	5	V
$I_C$	Collector current		0.5	A
$I_{CM}$	Collector current-peak		1	A
$P_D$	Total power dissipation	$T_C=25^\circ\text{C}$	1.2	W
$T_j$	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	2SC1567	I <sub>C</sub> =0.1mA ; I <sub>B</sub> =0	100			V
		2SC1567A		120			
V <sub>(BR)EBO</sub>	Emitter-base breakdown voltage		I <sub>E</sub> =1μA ; I <sub>C</sub> =0	5			V
V <sub>CEsat</sub>	Collector-emitter saturation voltage		I <sub>C</sub> =0.5A ; I <sub>B</sub> =50m A		0.2	0.4	V
V <sub>BEsat</sub>	Base-emitter saturation voltage		I <sub>C</sub> =0.5A ; I <sub>B</sub> =50m A		0.85	1.2	V
h <sub>FE-1</sub>	DC current gain		I <sub>C</sub> =150mA ; V <sub>CE</sub> =10V	65		330	
h <sub>FE-2</sub>	DC current gain		I <sub>C</sub> =0.5A ; V <sub>CE</sub> =5V	50			
C <sub>OB</sub>	Output capacitance		I <sub>E</sub> =0 ; V <sub>CB</sub> =10V;f=1MHz		11		pF
f <sub>T</sub>	Transition frequency		I <sub>C</sub> =50mA ; V <sub>CE</sub> =10V,f=200MHz		120		MHz

◆ h<sub>FE-1</sub> Classifications

R	S
130-220	185-330

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PACKAGE OUTLINE

