# 2SA0794 (2SA794), 2SA0794A (2SA794A)

## Silicon PNP epitaxial planar type

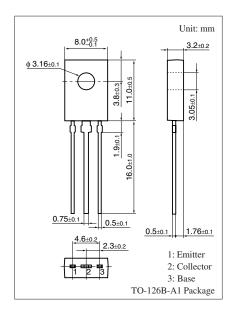
For low-frequency output driver Complementary to 2SC1567, 2SC1567A

#### ■ Features

- $\bullet$  High collector-emitter voltage (Base open)  $V_{\text{CEO}}$
- Optimum for the driver stage of low-frequency and 40 W to 100 W output amplifier
- TO-126B package which requires no insulation plate for installation to the heat sink

### ■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage	2SA0794	$V_{CBO}$	-100	V
(Emitter open)	2SA0794A		-120	
Collector-emitter voltage	2SA0794	V <sub>CEO</sub>	-100	V
(Base open)	2SA0794A		-120	
Emitter-base voltage (Coll	$V_{EBO}$	-5	V	
Collector current	$I_C$	- 0.5	A	
Peak collector current	$I_{CP}$	-1	A	
Collector power dissipation	P <sub>C</sub>	1.2	W	
Junction temperature	$T_{j}$	150	°C	
Storage temperature	T <sub>stg</sub>	-55 to +150	°C	



### ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage	2SA0794	V <sub>CEO</sub>	$I_{\rm C} = -100 \mu\text{A},  I_{\rm B} = 0$	-100			V
(Base open)	2SA0794A			-120			
Emitter-base voltage (Collector open)		V <sub>EBO</sub>	$I_E = -1  \mu A,  I_C = 0$	-5			V
Forward current transfer ratio		h <sub>FE1</sub> *	$V_{CE} = -10 \text{ V}, I_{C} = -150 \text{ mA}$	90		220	_
		h <sub>FE2</sub>	$V_{CE} = -5 \text{ V}, I_{C} = -500 \text{ mA}$	50	100		
Collector-emitter saturation	voltage	V <sub>CE(sat)</sub>	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$		- 0.2	- 0.4	V
Base-emitter saturation volt	age	V <sub>BE(sat)</sub>	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$		- 0.85	-1.20	V
Transition frequency		$f_T$	$V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		120		MHz
Collector output capacitance		C <sub>ob</sub>	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		20	30	pF
(Common base, input open	circuited)						

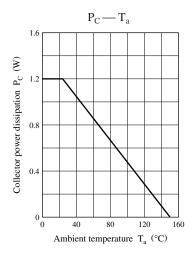
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

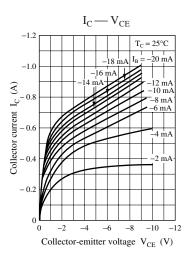
#### 2. \*: Rank classification

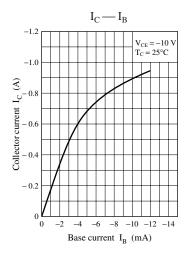
Rank	Q	R
h <sub>FE1</sub>	90 to 155	130 to 220

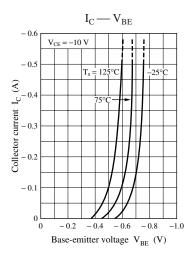
Note) The part numbers in the parenthesis show conventional part number.

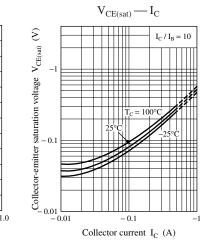
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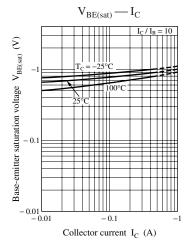


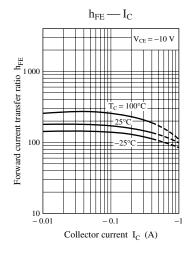


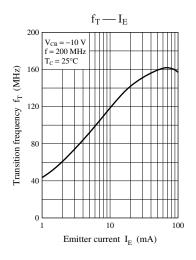


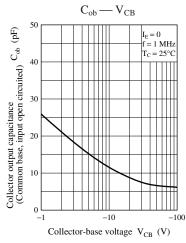


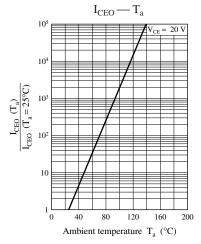


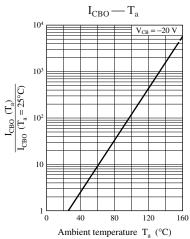


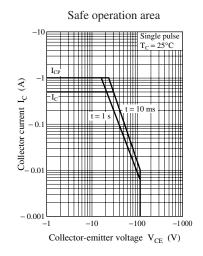












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