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

Silicon PNP epitaxial planar type

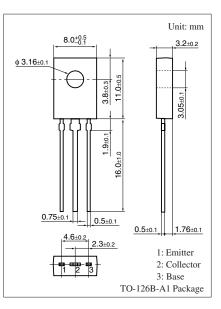
For low-frequency output driver Complementary to 2SC1567, 2SC1567A

Features

- \bullet High collector-emitter voltage (Base open) $V_{\mbox{CEO}}$
- 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 natings $T_a = 25$ C							
Parameter	Symbol	Rating	Unit				
Collector-base voltage	2SA0794	V _{CBO}	-100	V			
(Emitter open)	2SA0794A		-120				
Collector-emitter voltage	2SA0794	V _{CEO}	-100	V			
(Base open)	2SA0794A		-120				
Emitter-base voltage (Col	V _{EBO}	-5	V				
Collector current	I _C	- 0.5	А				
Peak collector current	I _{CP}	-1	А				
Collector power dissipation		P _C	1.2	W			
Junction temperature	Tj	150	°C				
Storage temperature	T _{stg}	-55 to +150	°C				

Absolute Maximum Ratings $T_a = 25^{\circ}C$



Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

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

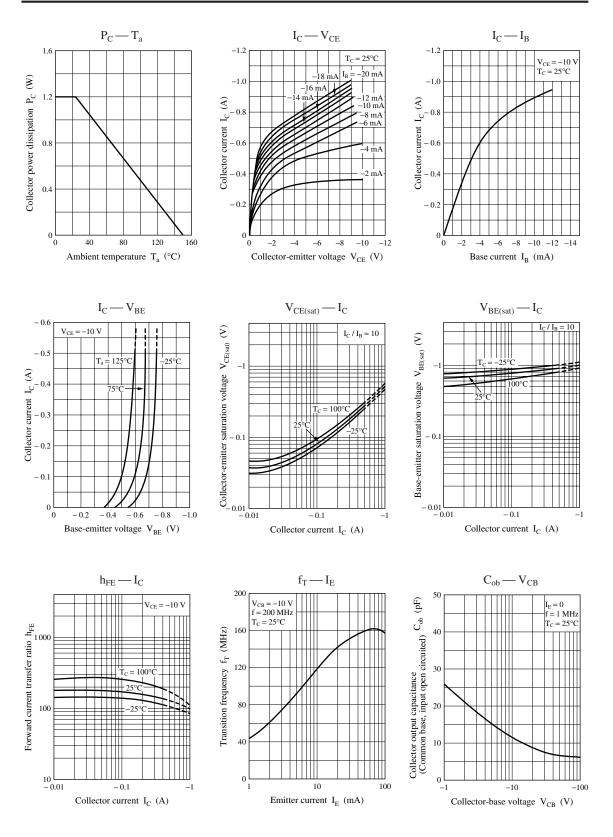
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

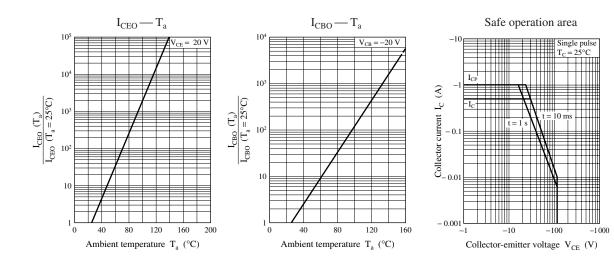
Rank	Q	R
$h_{\rm FE1}$	90 to 155	130 to 220

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

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