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

Silicon PNP epitaxial planar type

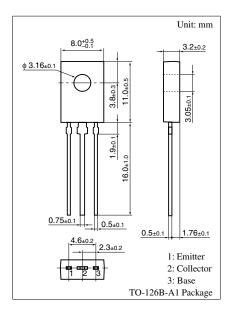
For low-frequency output driver Complementary to 2SC1567 and 2SC1567A

■ Features

- ullet High collector to emitter voltage V_{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 $T_C = 25$ °C

Parameter		Symbol	Rating	Unit
Collector to base	2SA0794	V_{CBO}	-100	V
voltage	2SA0794A		-120	
Collector to	2SA0794	V_{CEO}	-100	V
emitter voltage	2SA0794A		-120	
Emitter to base voltage		V_{EBO}	-5	V
Peak collector current		I_{CP}	-1	A
Collector current		I_C	- 0.5	A
Collector power dissipation		P_{C}	1.2	W
Junction temperature		T _j	150	°C
Storage temperature		T_{stg}	-55 to +150	°C



■ Electrical Characteristics $T_C = 25$ °C

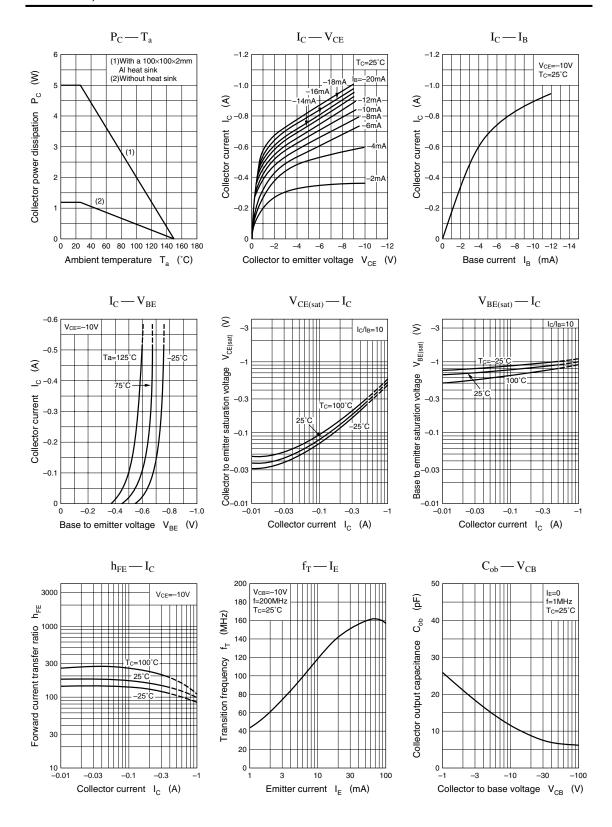
Parameter	r	Symbol	Conditions	Min	Тур	Max	Unit
Collector to emitter	2SA0794	V_{CEO}	$I_{\rm C} = -100 \ \mu A, I_{\rm B} = 0$	-100			V
voltage	2SA0794A			-120			
Emitter to base voltage	;	V_{EBO}	$I_E = -1 \mu A, I_C = 0$	-5			V
Forward current transfe	er ratio	h _{FE1} *	$V_{CE} = -10 \text{ V}, I_{C} = -150 \text{ mA}$	90	160	220	
		h _{FE2}	$V_{CE} = -5 \text{ V}, I_{C} = -500 \text{ mA}$	50	100		
Collector to emitter satu	ration voltage	V _{CE(sat)}	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$		- 0.2	- 0.4	V
Base to emitter saturati	on voltage	V _{BE(sat)}	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$		- 0.85	-1.2	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

Note) *: Rank classification

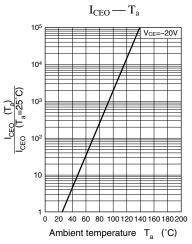
Rank	Q	R			
h_{FE1}	90 to 155	130 to 220			

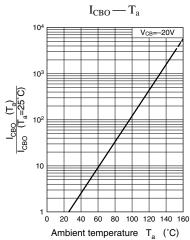
Note.) The Part numbers in the Parenthesis show conventional part number.

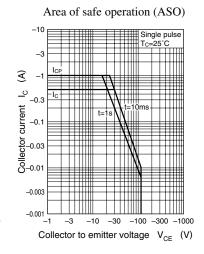
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