2SC1567, 2SC1567A

Silicon NPN epitaxial planar type

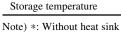
For low-frequency high power driver Complementary to 2SA0794 (2SA794) and 2SA0794A (2SA794A)

■ Features

- \bullet 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	2SC1567	V_{CBO}	100	V
voltage	2SC1567A		120	
Collector to	2SC1567	V _{CEO}	100	V
emitter voltage	2SC1567A		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 temperatu	re	T_{stg}	-55 to +150	°C



Unit: mm 8.0^{+0.5} 9.3.16±0.1 0.5±0.1 1.76±0.1 1.76±0.1 1.2 3 1.2 Emitter 2. Collector 3. Base TO-126B Package

■ Electrical Characteristics $T_C = 25$ °C

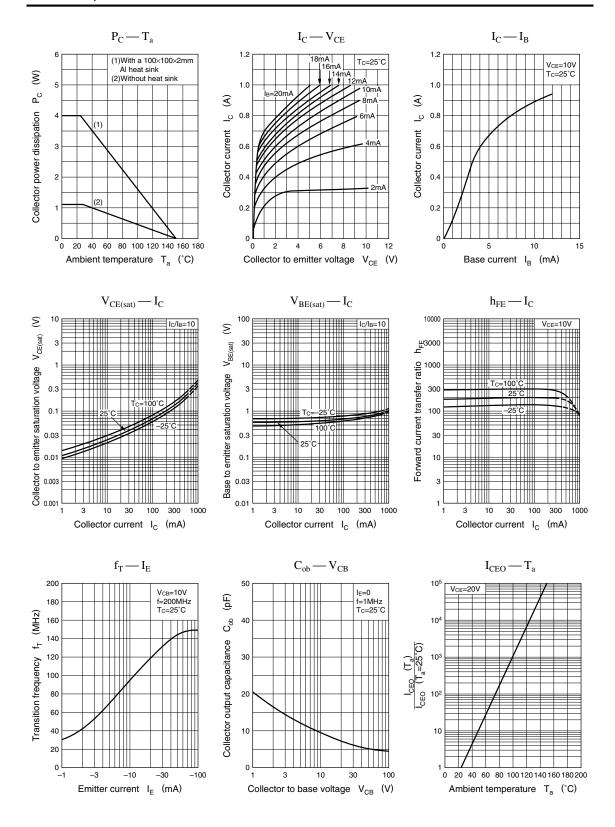
Parameter	r	Symbol	Conditions	Min	Тур	Max	Unit
Collector to emitter	2SC1567	V_{CEO}	$I_C = 100 \mu\text{A}, I_B = 0$	100			V
voltage	2SC1567A			120			
Emitter to base voltage	;	V_{EBO}	$I_E = 1 \mu A, I_C = 0$	5			V
Forward current transfer ratio		h _{FE1} *	$V_{CE} = 10 \text{ V}, I_{C} = 150 \text{ mA}$	65	130	330	
		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}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		11	20	pF

Note) *: Rank classification

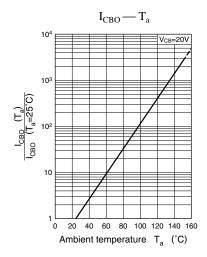
Rank	R	S		
h_{FE1}	130 to 220	185 to 330		

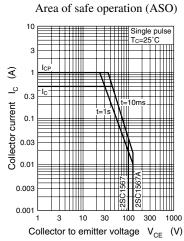
Note) The part numbers in the parenthesis show conventional part number.

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