2SC1567, 2SC1567A

Silicon NPN epitaxial planar type

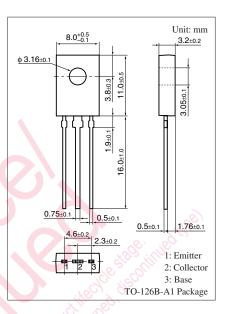
For low-frequency high power driver Complementary to 2SA0794, 2SA0794A

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 Hatings $T_a = 25$ C							
Parameter	Symbol	Rating	Unit				
Collector-base voltage	2SC1567	V _{CBO}	100	V			
(Emitter open)	2SC1567A		120				
Collector-emitter voltage	2SC1567	V _{CEO}	100	V			
(Base open)	2SC1567A		120				
Emitter-base voltage (Coll	V _{EBO}	5	V				
Collector current	I _C	0.5	А				
Peak collector current	I _{CP}	1	Α				
Collector power dissipatio	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 $T_a = 25^{\circ}C \pm 3^{\circ}C$

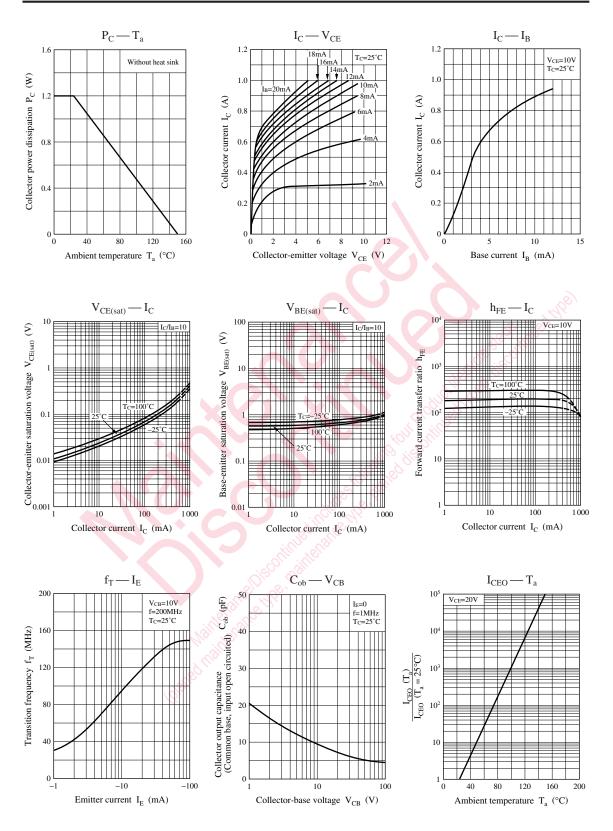
Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage	2SC1567	V _{CEO}	$I_{\rm C} = 100 \ \mu {\rm A}, \ I_{\rm B} = 0$	100			V
(Base open)	2SC1567A	and and		120			
Emitter-base voltage (Colle	ctor open)	VEBO	$I_E = 1 \ \mu A, I_C = 0$	5			V
Forward current transfer rat	io	h _{FE1} *	$V_{CE} = 10 \text{ V}, I_{C} = 150 \text{ mA}$	130		330	_
	14	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 vol	tage	V _{BE(sat)}	$I_{C} = 500 \text{ mA}, I_{B} = 50 \text{ mA}$		0.85	1.20	V
Transition frequency	C	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
(Common base, input open	circuited)						

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

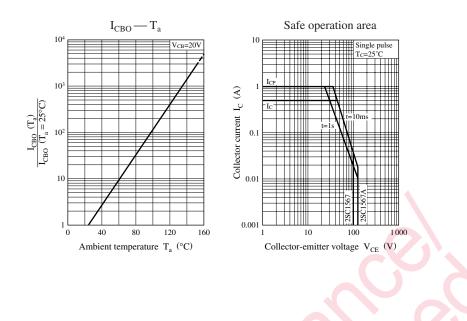
2. *: Rank classification

Rank	R	S		
h _{FE1}	130 to 220	185 to 330		

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