

2SC1567, 2SC1567A

Silicon NPN Epitaxial Planar Type

AF High Power Driver

Complementary Pair with 2SA794, 2SA794A

■ Features

- High collector-emitter voltage (V_{CE0})
- Optimum for the driver of 40~100W AF output
- TO-126 package, no insulator needed when fixing to a heat sink

■ Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$)

Item	Symbol	Value	Unit
Collector-base voltage	2SC1567	100	V
	2SC1567A	120	
Collector-emitter voltage	2SC1567	100	V
	2SC1567A	120	
Emitter-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	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-55~+150	$^{\circ}\text{C}$

* Without heat sink

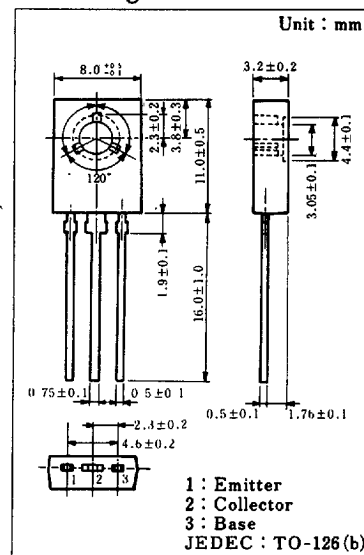
■ Electrical Characteristics ($T_c=25^{\circ}\text{C}$)

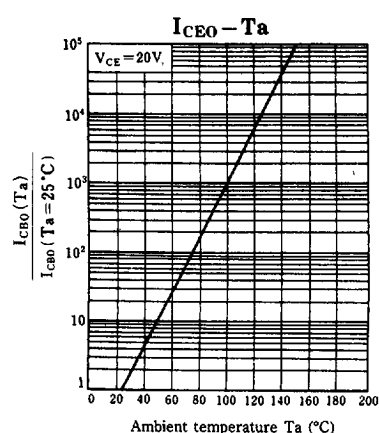
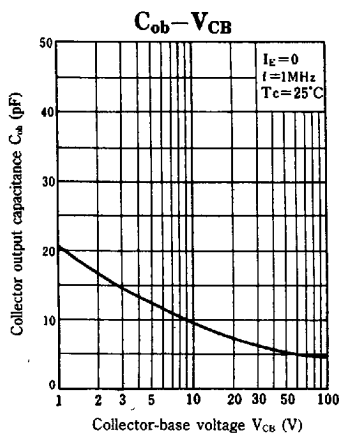
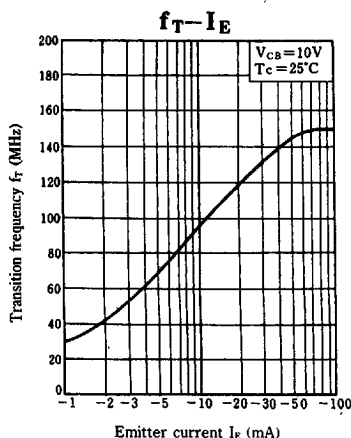
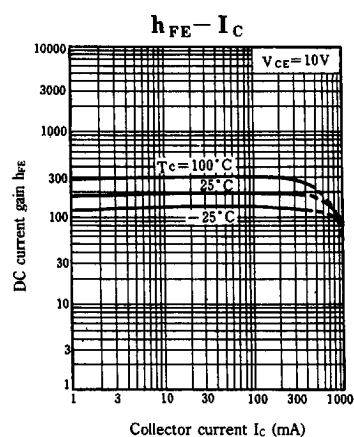
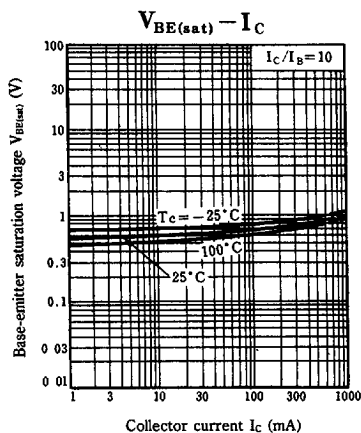
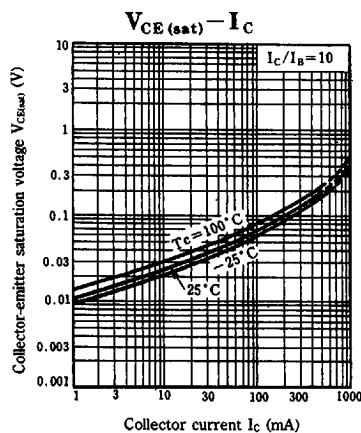
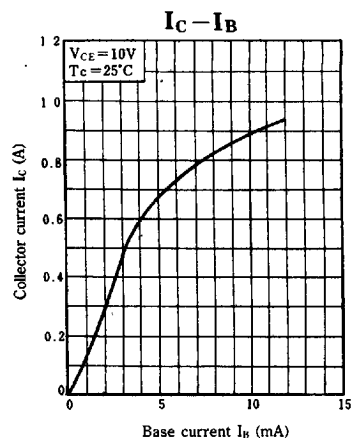
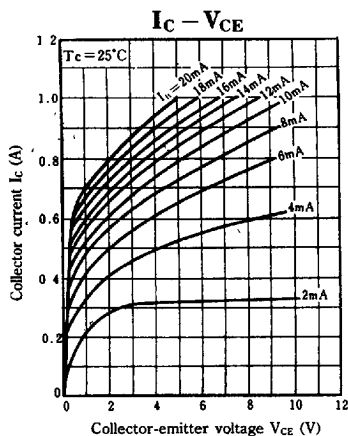
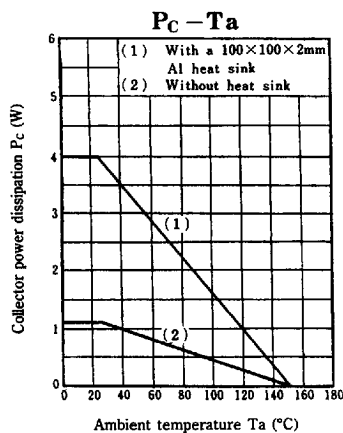
Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	2SC1567	$I_C=100\mu\text{A}$, $I_B=0$	100			V
	2SC1567A		120			
Emitter cutoff current	V_{EBO}	$I_E=1\mu\text{A}$, $I_C=0$	5			V
DC current gain	h_{FE1} *	$V_{CE}=10\text{V}$, $I_C=150\text{mA}$	65	160	330	
	h_{FE2}	$V_{CE}=5\text{V}$, $I_C=500\text{mA}$	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 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

* h_{FE1} Classifications

Class	P	Q	R	S
h_{FE1}	65~110	90~155	130~220	185~330

■ Package Dimensions





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