



High-Vebo, AF Amp Applications

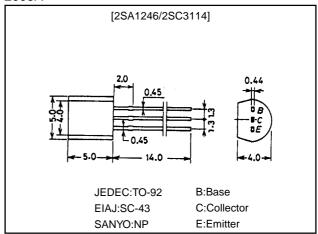
Features

- $\cdot \ High \ V_{EBO}.$
- · Wide ASO and highly resistant to breakdown.

Package Dimensions

unit:mm

2003A



(): 2SA1246

Specifications

Absolute Maximum Ratings at Ta = 25°C

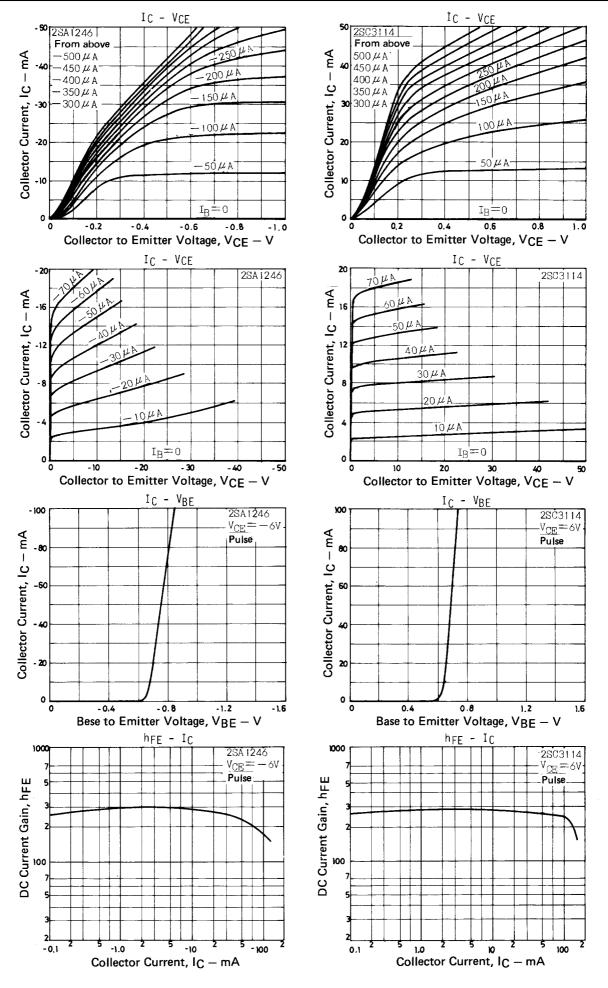
Parameter	Symbol	Conditions	Ratings	Unit	
Collector-to-Base Voltage	V _{CBO}		(-)60	V	
Collector-to-Emitter Voltage	V _{CEO}		(-)50	V	
Emitter-to-Base Voltage	V _{EBO}		(–)15	V	
Collector Current	IC		(-)150	mA	
Collector Current (Pulse)	I _{CP}		(-)300	mA	
Collector Dissipation	PC		400	mW	
Junction Temperature	Tj		150	°C	
Storage Temperature	Tstg		-55 to +150	°C	

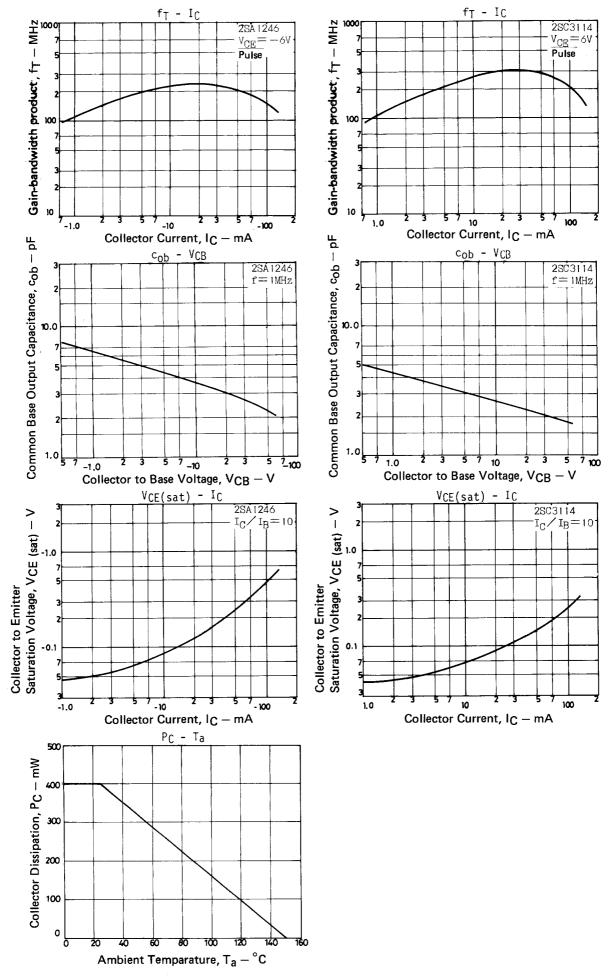
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
Farameter	Symbol	Conditions	min	typ	max	Onit
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)40V, I _E =0			(-)0.1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)10V, I _C =0			(-)0.1	μΑ
DC Current Gain	hFE	V _{CE} =(-)6V, I _C =(-)1mA	100*		560*	
Gain-Bandwidth Product	fT	V _{CE} =(-)6V, I _C =(-)1mA		100		MHz
Common base Output Capacitance	C _{ob}	V _{CB} =(-)6V, f=1MHz		(4.2)3.0		pF
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)50mA, I _B =(-)5mA			(-)0.5	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =(-)10μΑ, I _E =0	(-)60			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =(-)1mA, R _{BE} =∞	(–)50			V
Emitter-to-Base Breakdown Voltage	V _{(BR)EBO}	I _E =(-)10μA, I _C =0	(–)15			V

 $[\]ast$: The 2SA1246/2SC3114 are classified as follows according to h_{FE} at 1mA.

	100	R	200	140	S	280	200	Т	400	280	U	560
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2SA1246/2SC3114

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