



High-hfe, AF Amp Applications

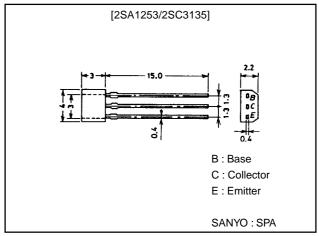
Features

- $\cdot \ High \ V_{EBO}.$
- · Wide ASO and high durability against breakdown.

Package Dimensions

unit:mm

2033



(): 2SA1253

Specifications

Absolute Maximum Ratings at Ta = 25°C

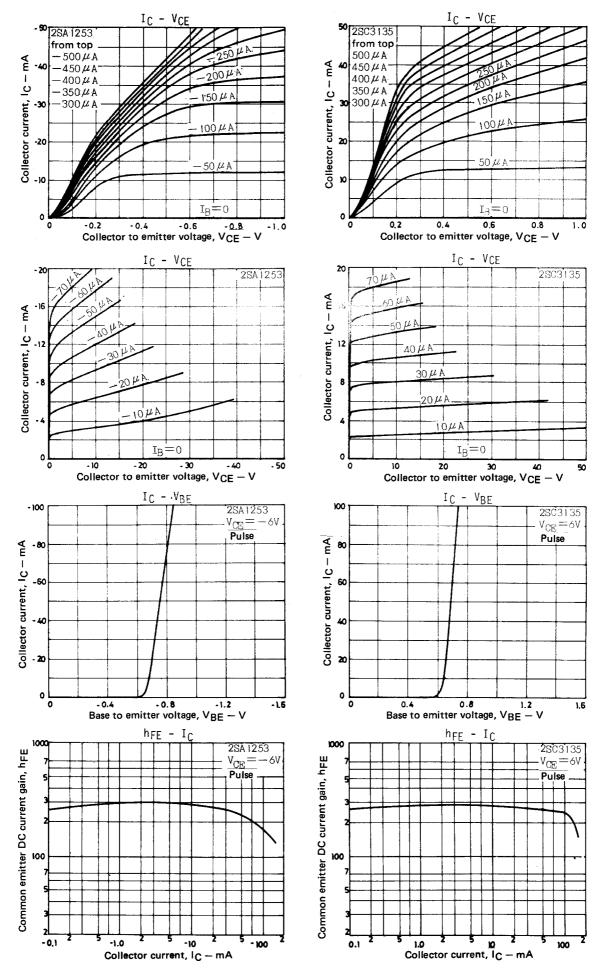
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		(-)60	V
Collector-to-Emitter Voltage	VCEO		(-)50	V
Emitter-to-Base Voltage	V _{EBO}		(–)15	V
Collector Current	lС		(-)200	mA
Collector Current (Pulse)	I _{CP}		(-)400	mA
Collector Dissipation	PC		250	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

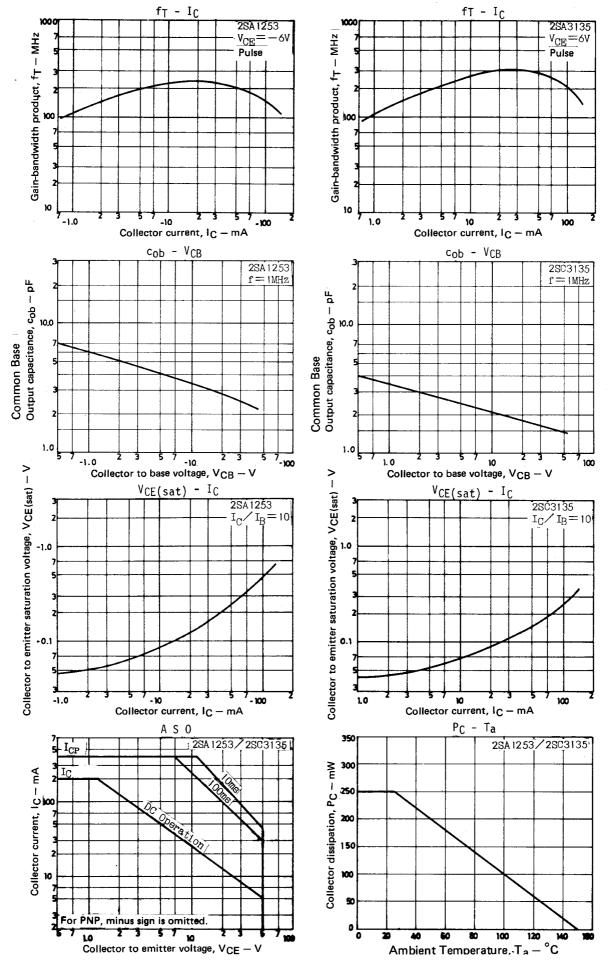
Electrical Characteristics at Ta = 25°C

Parameter	Cumbal	Conditions		Lloit		
Falanielei	Symbol	Conditions	A 100 MHz (3.8) pF 2.5	Offic		
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	μA
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	Cob	V _{CB} =(-)6V, f=1MHz				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 =(-)10μA, 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 2SA1253/2SC3135 are classified by 1mA h_{FE} as follows :

	100	R	200	140	S	280	200	Т	400	280	U	560	
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2SA1253/2SC3135

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