



F for AF Applications

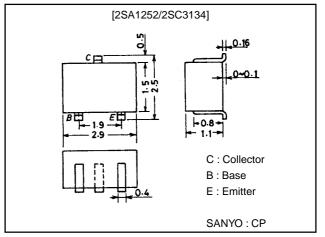
Features

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

Package Dimensions

unit:mm

2018A



(): 2SA1252

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	IC		(-)150	mA
Collector Current (Pulse)	I _{CP}		(-)300	mA
Collector Dissipation	PC		200	mW
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

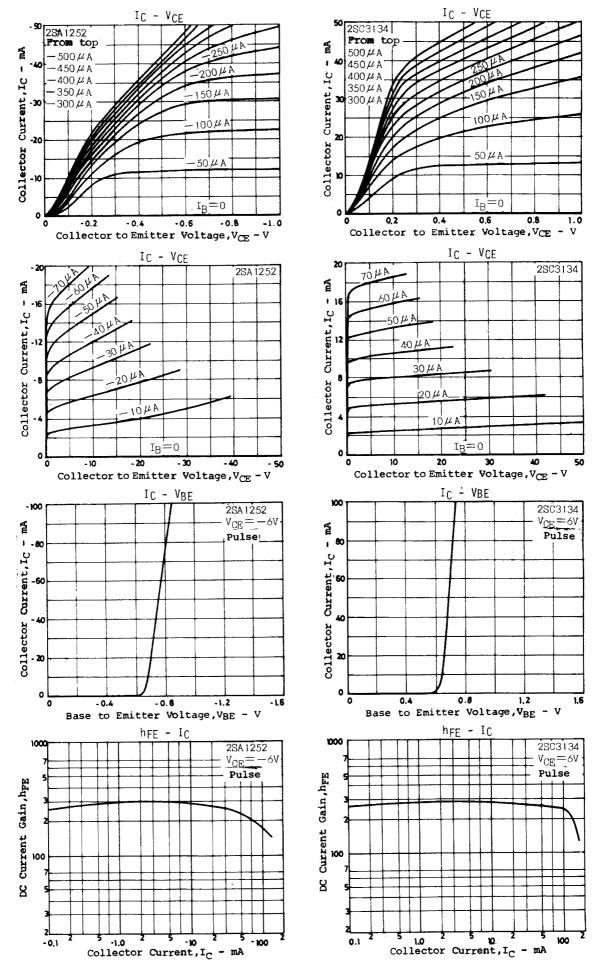
Electrical Characteristics at Ta = 25°C

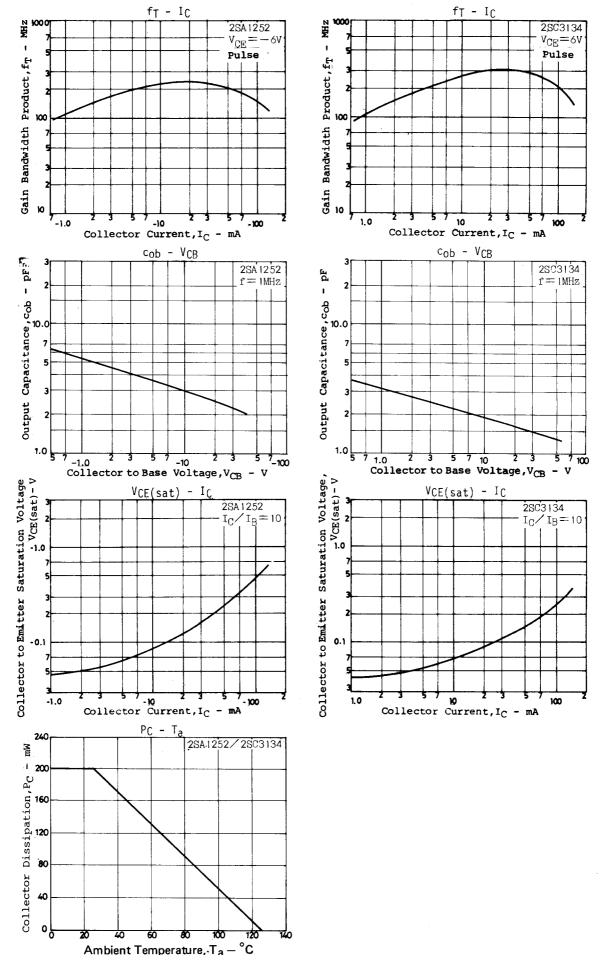
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)40V, I _E =0			(-)0.1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)10V, I _C =0			(-)0.1	μΑ
DC Current Gain	h _{FE}	$V_{CE}=(-)6V, I_{C}=(-)1mA$	90*		560*	
Gain-Bandwidth Product	fΤ	V _{CE} =(-)6V, I _C =(-)1mA		100		MHz
Output Capacitance	Cob	V _{CB} =(-)6V, f=1MHz		(3.5) 2.2		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	$I_{C}=(-)10\mu A, I_{E}=0$	(-)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

^{* :} The 2SA1252/2SC3134 are classified as follows according to h_{FE} at 1mA :

90 4 180 135 5 270 200 6 400 300 7 600

Marking 2SA1252 : D 2SC3134 : H h_{FE} rank : 4, 5, 6, 7





2SA1252/2SC3134

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