

2SA1208/2SC2910

High-Voltage Switching Audio 80W Output Predriver Applications

Features

- · Adoption of FBET process.
- · High breakdown voltage.
- · Excellent linearity of hFE and small Cob.
- · Fast swtching speed.

(): 2SA1208

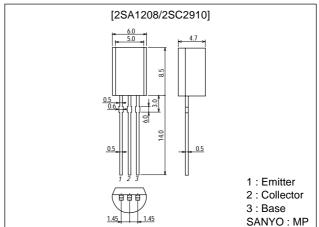
Specifications

Absolute Maximum Ratings at Ta = 25°C

Package Dimensions

unit:mm

2006B



SANYO : MP				
tings	Unit			
(–)180	V			

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		(-)180	V
Collector-to-Emitter Voltage	VCEO		(-)160	V
Emitter-to-Base Voltage	V _{EBO}		(-)5	V
Collector Current	l _C		(–)70	mA
Collector Current (Pulse)	I _{CP}		(–)140	mA
Collector Dissipation	PC		900	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Symbol Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)80V, I _E =0			(-)0.1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0			(-)0.1	μA
DC Current Gain	hFE	V _{CE} =(-)5V, I _C =(-)10mA	100*		400*	
Gain-Bandwidth Product	f _T	V _{CE} =(-)10V, I _C =(-)10mA		150		MHz
Output Capacitance	C _{ob}	V _{CB} =(-)10V, f=1MHz		(2.5)2.0		pF
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)30mA, I _B =(-)3mA		0.08 (-0.14)	0.3 (-0.4)	V

^{*:} The 2SA1208/2SC2910 are classified by 10mA h_{FE} are follows:

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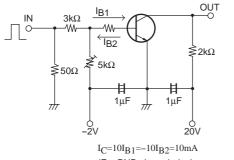
Rank	R	S	Т
hFE	100 to 200	140 to 280	200 to 400

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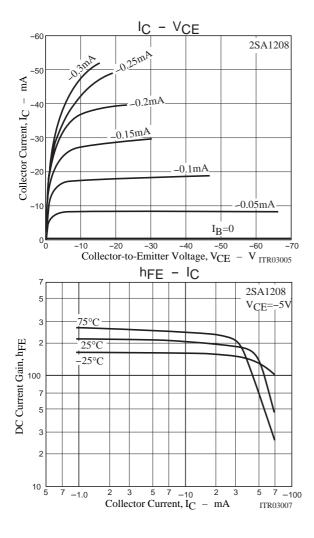
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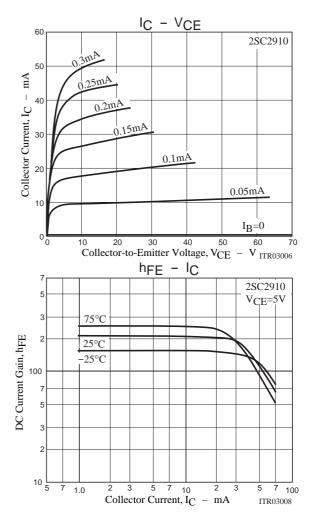
Parameter	Symbol Conditions	Conditions	Ratings			Unit
		min	typ	max	Offic	
Turn-ON Time	ton	See specified Test Circuit		0.1		μs
Fall Time	t _f	See specified Test Circuit		0.2		μs
Storage Time	t _{sta}	See specified Test Circuit		1.0		μs

Switching Time Test Circuit

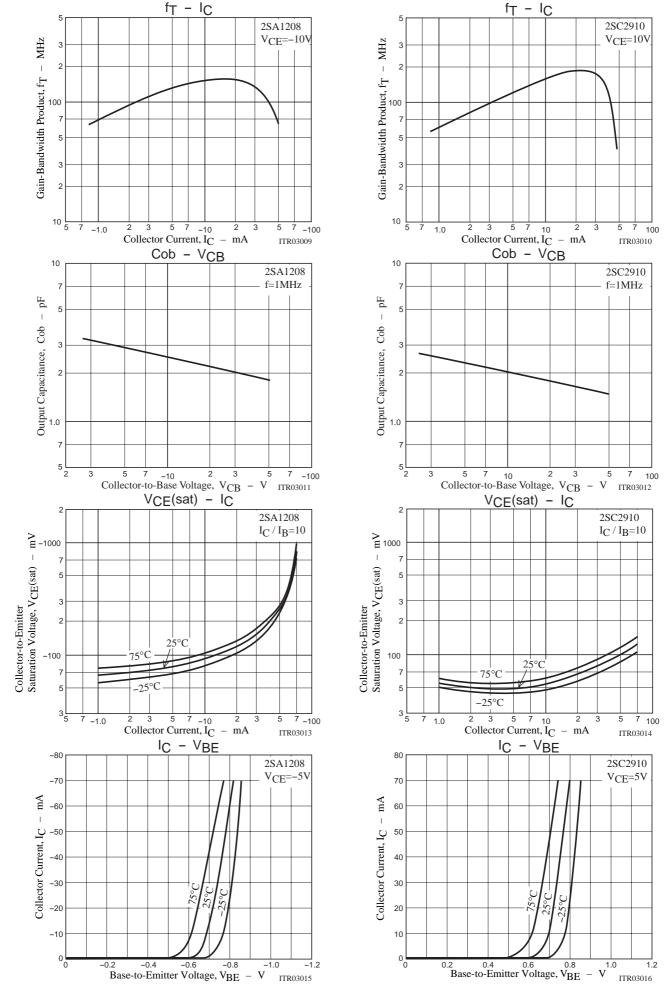


(For PNP, the polarity is reversed.)

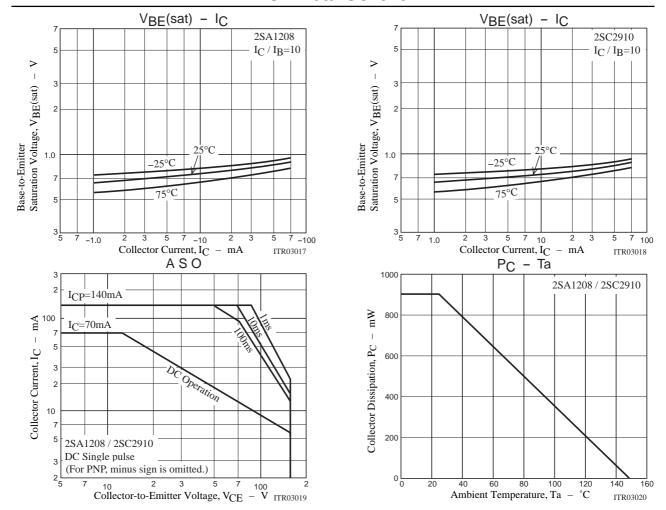




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