

2SA1208/2SC2910

High-Voltage Switching Audio 80W Output Predriver Applications

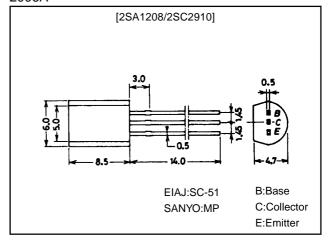
Features

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

Package Dimensions

unit:mm

2006A



(): 2SA1208

Specifications

Absolute Maximum Ratings at Ta = 25°C

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

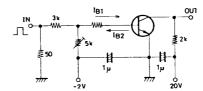
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
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	h _{FE}	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
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

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

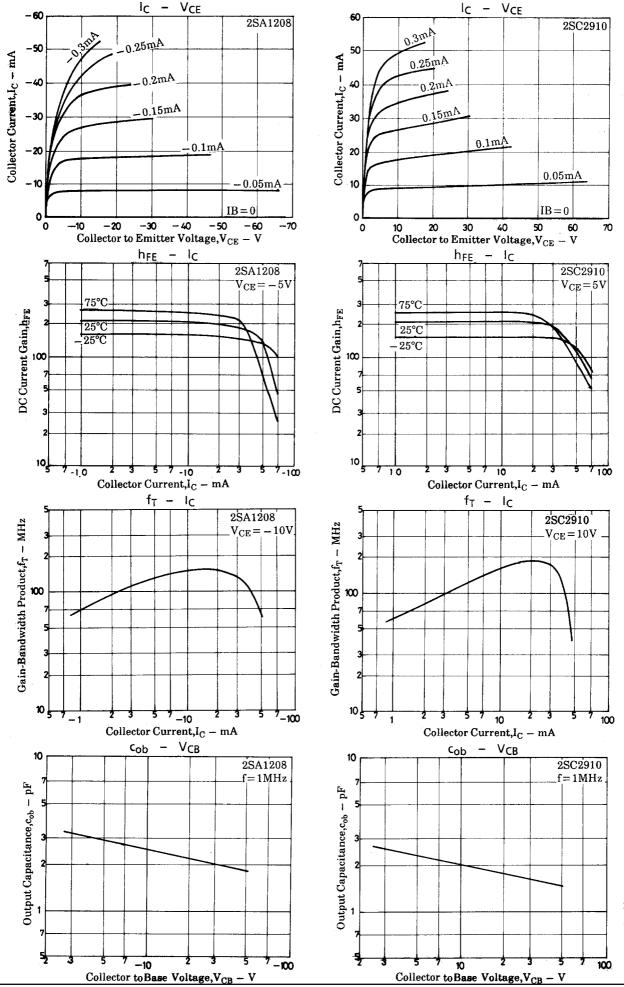
100 R 200 140 S 280 200 T 400

Switching Time Test Circuit

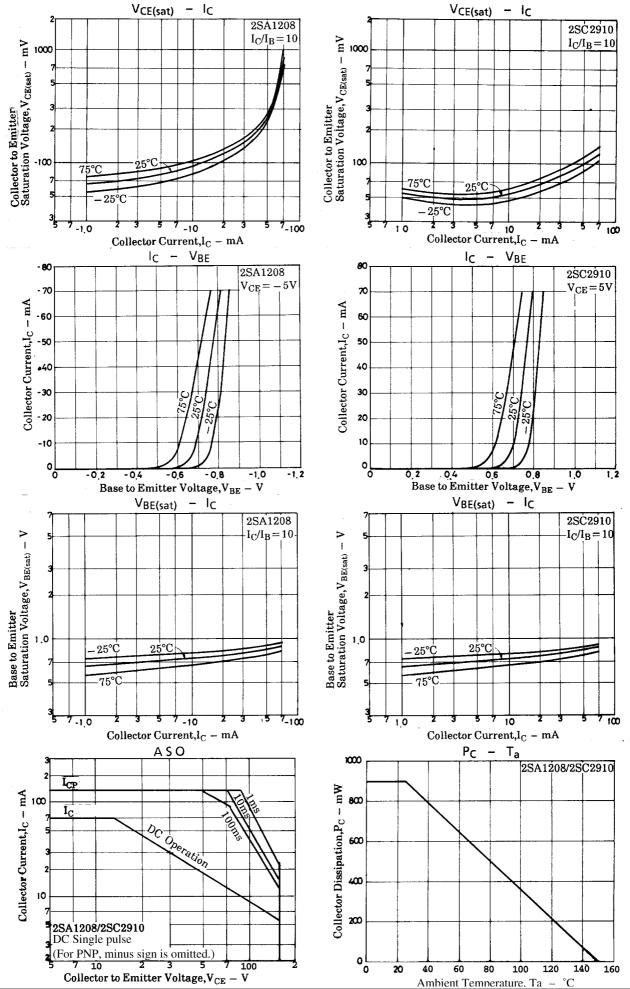


 I_{C} =10 I_{B1} =-10 I_{B2} =10mA (For PNP, the polarity is reversed) Unit (resistance : Ω , capacitance : F)

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