

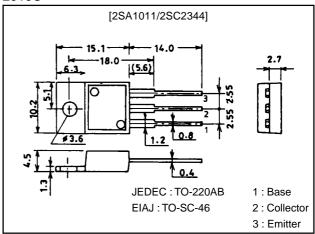
2SA1011/2SC2344

High-Voltage Switching, AF Power Amp, 100W Output Predriver Applications

Package Dimensions

unit:mm

2010C



(): 2SA1011

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	Vсво		(-)180	V
Collector-to-Emitter Voltage	VCEO		(-)160	V
Emitter-to-Base Voltage	V _{EBO}		(-)6	V
Collector Current	Ic		(-)1.5	Α
Collector Current (Pulse)	ICP		(-)3	Α
Collector Dissipation	PC	Tc=25°C	25	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

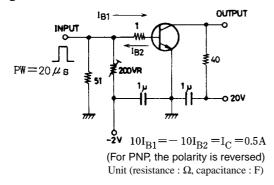
Electrical Characteristics at Ta = 25°C

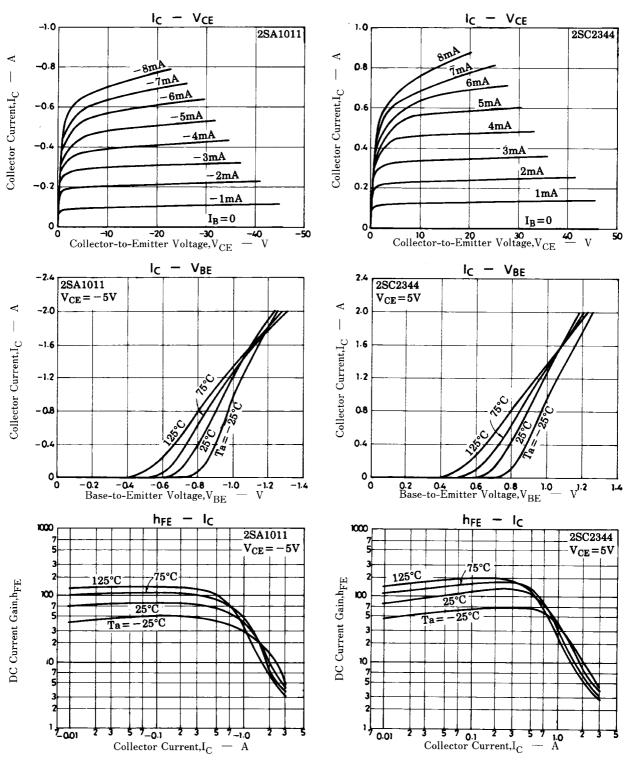
Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)120V, I _E =0			(–)10	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0			(–)10	μΑ
DC Current Gain	h _{FE}	V _{CE} =(-)5V, I _C =(-)300mA	60*		200*	
Gain-Bandwidth Product	fT	V _{CE} =(-)10V, I _C =(-)50mA		100		MHz
Output Capacitance	C _{ob}	V _{CB} =(-)10V, f=1MHz		(30)		pF
				23		pF
Base-to-Emitter Voltage	V _{BE}	V _{CE} =(-)5V, I _C =(-)10mA		(–)1.5		V
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =(-)500mA, I _B =(-)50mA		(-0.5)		V
				0.3		V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =(-)1mA, I _E =0	(–)180			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =(-)1mA, R _{BE} =∞	(-)160			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO		(-)6			V
Turn-ON Time	ton	See specified Test Circuit		(0.29) 0.15		μs
Fall Time	t _f	See specified Test Circuit		(0.19) 0.48		μs
Storage Time	^t stg	See specified Test Circuit		(0.48) 0.81		μs

 $[\]ast$: The 2SA1011/2SC2344 are classified by 300mA h_{FE} as follows :

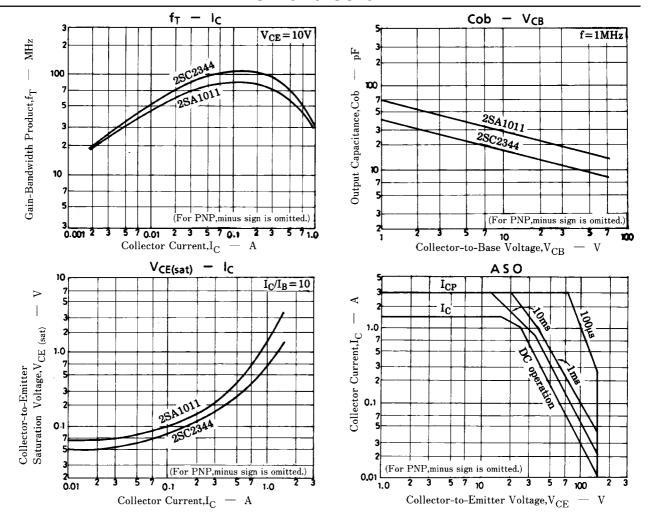
60 D 120 100 E 200

Switching Time Test Circuit





2SA1011/2SC2344



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