25A1111, 25A1112

Silicon PNP Epitaxial Planar Type

AF Drivers, High Power Amplifiers Complementary Pair with 2SC2591, 2SC2592

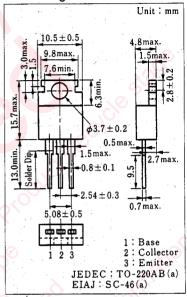
■ Features

- Very good linearity of DC current gain (hFE)
- High transition frequency (f_T)
- 60~100W output driver in complementary pair with 2SC2591, 2SC2592

■ Absolute Maximum Ratings (Ta=25°C)

Item		Symbol	Value	Unit
Collector-	2SA1111	V_{CBO}	-150	V
base voltage	2SA1112	V СВО	-180	v
Collector- emitter voltage	2SA1111	V _{CEO}	-150	v
	2SA1112	V CEO	-180	<u> </u>
Emitter-base voltage		V _{EBO}	-5	V
Peak collector current		ICP	-1.5	Α
Collector current		Ic	-1	A.
Collector power dissipation (Tc=25°C)		Pc	20	W
Junction temperature		Ti	150	c
Storage temperature		Tstg	$-55 \sim +150$	C

■ Package Dimensions

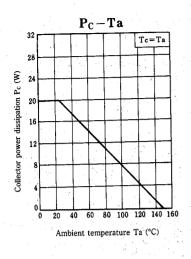


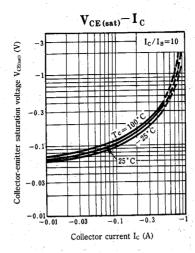
■ Electrical Characteristics (Tc=25°C)

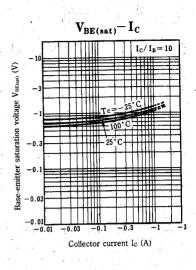
Item		Symbol	Condition		typ.	max.	Unit
Collector- emitter voltage	2SA1111 2SA1112	V _{CEO}	$I_C = -100 \mu \text{ A}, I_B = 0$ -15 -18				V
Emitter-base voltage		V _{EBO}	$I_E = -10 \mu A, I_C = 0$	-5			. V
DC current gain		h _{EF1} *	$V_{CE} = -10V$, $I_C = -150 \text{ mA}$	65	160	330	
		h _{FE2}	$V_{CE} = -5 \text{ V}, I_{C} = -500 \text{ mA}$	50	100		
Collector-emitter saturation voltage		V _{CE(sat)}	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$		-0.5	-2.0	V
Base-emitter saturation voltage		V _{BE(sat)}	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$		-1.0	-2.0	V
Transition frequency		Ťτ	$V_{CB} = -10V$, $I_E = 50$ mA, $f = 200$ MHz		200		MHz
Collector output capacitance		Сьь	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MH}_Z$	4.7	. 30	50	pF

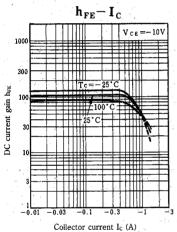
*hFE1 Classifications

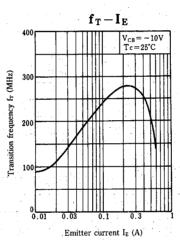
Class	P	Q	R	S
h _{FE1}	65~110	90~155	130~220	185~330

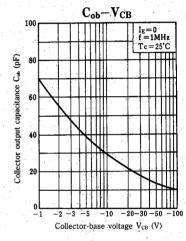


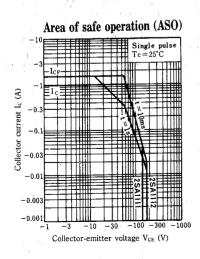












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