# **2SA0914** (2SA914)

### Silicon PNP epitaxial planar type

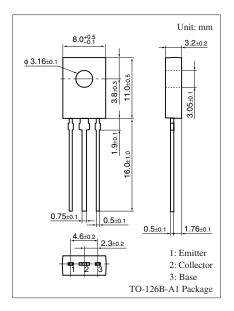
For audio system/pli drive Complementary to 2SC1953

#### ■ Features

- A complementary pair with 2SC1953, is optimum for the predriver stage of a 60 W to 100 W output amplifier
- TO-126B package which requires no insulation plate for installation to the heat sink

#### ■ Absolute Maximum Ratings $T_C = 25$ °C

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	-150	V
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	-150	V
Emitter-base voltage (Collector open)	$V_{EBO}$	-5	V
Collector current	$I_C$	-50	mA
Peak collector current	$I_{CP}$	-100	mA
Collector power dissipation	P <sub>C</sub>	1.2	W
Junction temperature	$T_{j}$	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C



### ■ Electrical Characteristics $T_a = 25$ °C $\pm 3$ °C

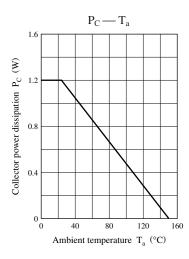
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V <sub>CEO</sub>	$I_C = -100 \mu\text{A},  I_B = 0$	-150			V
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	$I_E = -10 \ \mu A, I_C = 0$	-5			V
Collector-base cutoff current (Emitter open)	$I_{CBO}$	$V_{CB} = -100 \text{ V}, I_E = 0$			-1	μΑ
Forward current transfer ratio *	$h_{FE}$	$V_{CE} = -5 \text{ V}, I_{C} = -10 \text{ mA}$	130		330	_
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = -30 \text{ mA}, I_B = -3 \text{ mA}$			-1	V
Transition frequency	$f_T$	$V_{CB} = -10 \text{ V}, I_E = 10 \text{ mA}, f = 200 \text{ MHz}$	70			MHz
Collector output capacitance	C <sub>ob</sub>	$V_{CB} = -6 \text{ V}, I_E = 0, f = 1 \text{ MHz}$			5	pF
(Common base, input open circuited)						

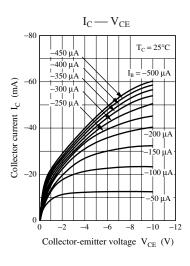
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

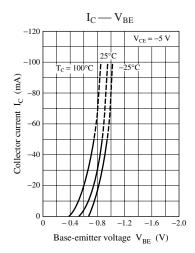
#### 2. \*: Rank classification

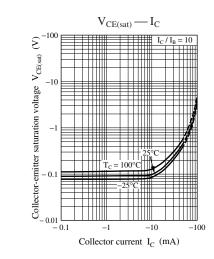
Rank	R	S
$h_{FE}$	130 to 220	185 to 330

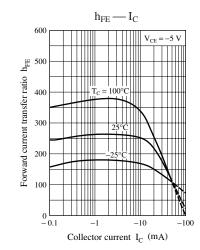
Note) The part number in the parenthesis shows conventional part number.

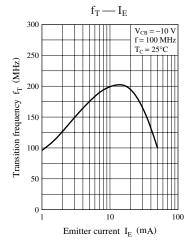


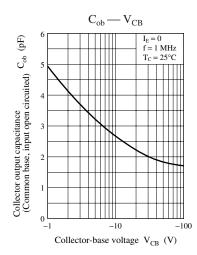












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