

2SB929, 2SB929A

Silicon PNP Epitaxial Planar Type

Power Amplifier

Complementary Pair with 2SD1252, 2SD1252A

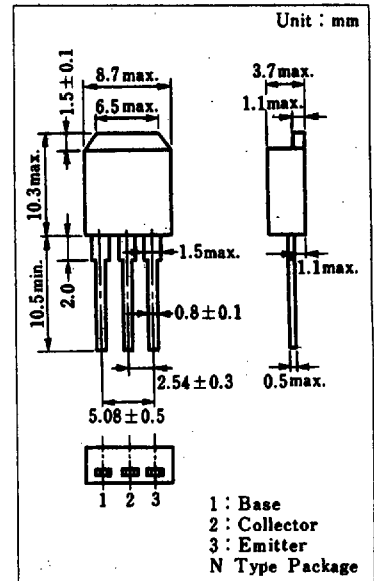
■ Features

- High DC current gain (h_{FE}) and good linearity
- Low collector-emitter saturation voltage ($V_{CE(sat)}$)
- "N Type" package configuration with a cooling fin for direct soldering on PC board of a small-size electronic equipment

■ Absolute Maximum Ratings ($T_c=25^\circ\text{C}$)

Item		Symbol	Value	Unit
Collector-base voltage	2SB929	V_{CBO}	-60	V
	2SB929A		-80	
Collector-emitter voltage	2SB929	V_{CEO}	-60	V
	2SB929A		-80	
Emitter-base voltage		V_{EBO}	-5	V
Peak collector current		I_{CP}	-5	A
Collector current		I_C	-3	A
Collector power dissipation	$T_C = 25\text{ }^{\circ}\text{C}$	P_C	35	W
	$T_A = 25\text{ }^{\circ}\text{C}$		1.3	
Junction temperature		T_j	150	$^{\circ}\text{C}$
Storage temperature		T_{stg}	-55 ~ +150	$^{\circ}\text{C}$

■ Package Dimensions



*Surface-mount type is also available.
(Refer to p.82.)

■ Electrical Characteristics ($T_c=25^\circ\text{C}$)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	2SB929 2SB929A	I_{CES} $V_{CE} = -60\text{ V}, V_{BE} = 0$ $V_{CE} = -80\text{ V}, V_{BE} = 0$			-200	μA
					-200	
Collector cutoff current	2SB929 2SB929A	I_{CEO} $V_{CE} = -30\text{ V}, I_B = 0$ $V_{CE} = -60\text{ V}, I_B = 0$			-300	μA
					-300	
Emitter cutoff current		I_{EBO} $V_{EB} = -5\text{ V}, I_C = 0$			-1	mA
Collector-emitter voltage	2SB929 2SB929A	V_{CEO} $I_C = -30\text{ mA}, I_B = 0$	-60 -80			V
DC current gain		h_{FE1}^* $V_{CE} = -4\text{ V}, I_C = -1\text{ A}$	40		250	
		h_{FE2} $V_{CE} = -4\text{ V}, I_C = -3\text{ A}$	10			
Base-emitter voltage		V_{BE} $V_{CE} = -4\text{ V}, I_C = -3\text{ A}$			-1.8	V
Collector-emitter saturation voltage		$V_{CE(sat)}$ $I_C = -3\text{ A}, I_B = -0.375\text{ A}$			-1.2	V
Transition frequency		f_T $V_{CE} = -10\text{ V}, I_C = -0.5\text{ A}, f = 10\text{ MHz}$		30		MHz
Turn-on time		t_{on}		0.5		μs
Storage time		t_{stg}		1.2		μs
Collector current fall time		t_f		0.3		μs

* h_{FE1} Classifications

Class	R	Q	P
h_{FE1}	40 ~ 90	70 ~ 150	120 ~ 250

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