

2SB514/2SD330

50V/2A Low-Frequency Power Amplifier Applications

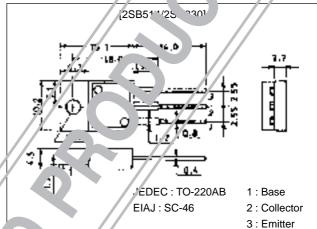
Features

- · Especially suited for use in output stage of 10W AF Power amplifier.
- · Complementary pair with the 2SB514 and 2SD313.

Package Dimensions

unit:mm

2010C



(): 2SB514

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCPO		(-)50	V
Collector-to-Emitter Voltage	VCEO		(-)50	V
Emitter-to-Base Voltage	V _E BO		(–)5	V
Collector Current	Ic		(-)2	Α
Collector Current (Pulse)	ICP		(-)5	Α
Collector Dissipation	Po		1.75	W
	1 25°	C //	20	W
Junction Temperature	Ti	//	150	°C
Storage Temperature	Tsis		-55 to +150	°C

Electrical Characteristics at Ta = 2.7

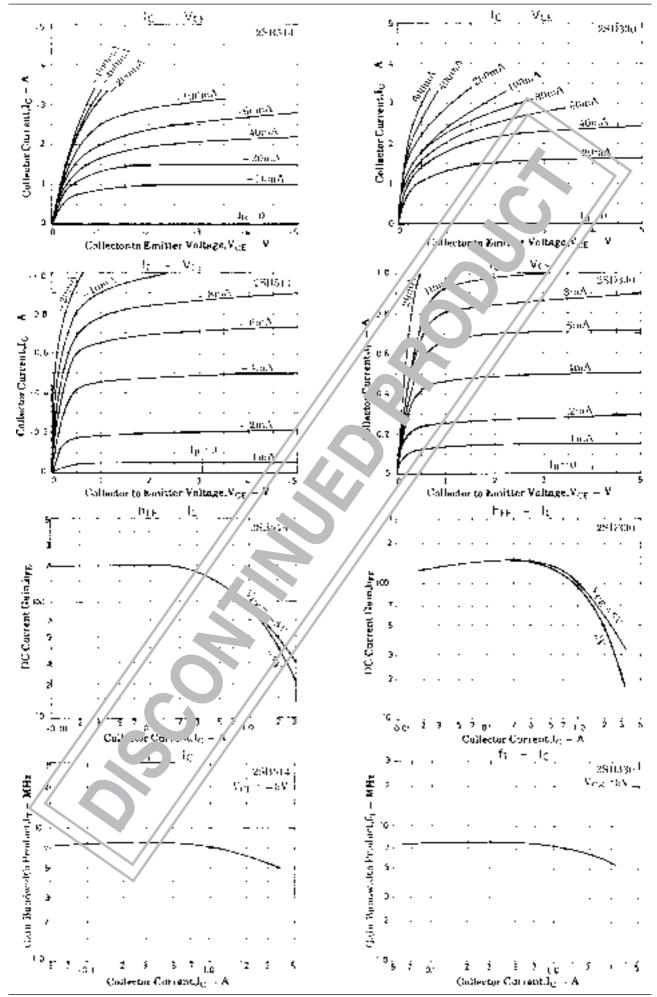
Parameter	Symbol	Conditions	Ratings			Unit
Falameter			min	typ	max	Offic
Collector Cutoff Current	I _{CBO}	V _{CB} =(−)20V, I _E =0			(-)0.1	mA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0			(-)1.0	mA
DC Current Gain	hr/E1	V _{CE} =(-)2V, I _C =(-)1A	40*		320*	
	nr∈2	V _{CE} =(-)2V, I _C =(-)0.1A	35			
Gain-Bandwidth Product	fΤ	V _{CE} =(-)5V, I _C =(-)0.5A		8		MHz
Collector-to-Fmiriter Satur on the 3	VCE(sat)	I _C =(-)2A, I _B =(-)0.2A			(-)1.0	V
Base-to-Er litter Voltag	V _{BE}	I _C =(-)1A, V _{CE} =-(-)5V			(–)1.5	V

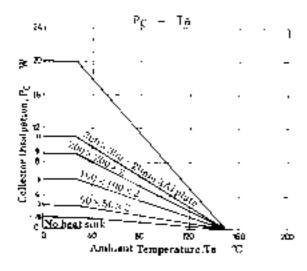
*: The 23B314/2SP220 are 13ssified by 1A n_{FE} as follows:

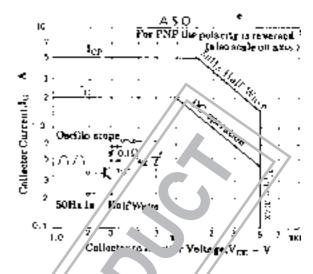
40 C 50 | 60 D 120 | 100 E 200 | 160 F 320

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SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters







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