

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



,'EDEC : TO-220AB EIAJ : SC-46 1 : Base 2 : Collector

3 : Emitter

(): 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 _{EBO}		(–)5	V
Collector Current	Ic		(–)2	Α
Collector Current (Pulse)	ICP		(–)5	Α
Collector Dissipation	P ₂		1.75	W
	1 25°C		20	W
Junction Temperature	Ti		150	°C
Storage Temperature	Tsis		-55 to +150	°C

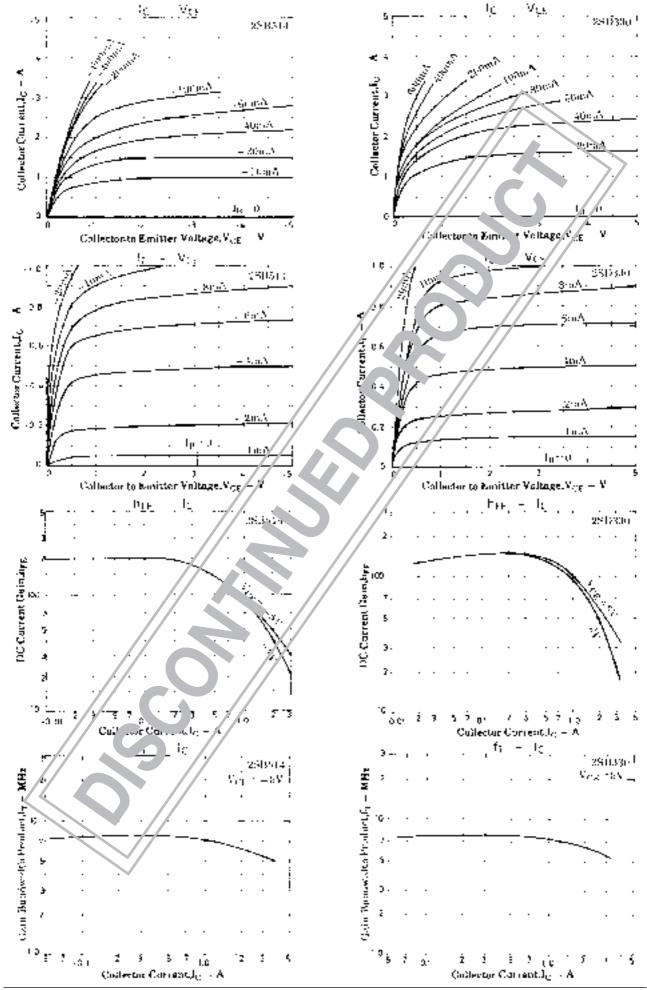
Electrical Characteristics at Ta = 2.

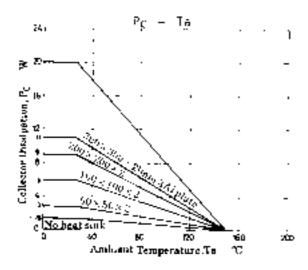
Parameter	Symbol	Conditions	Ratings			Unit
Falameter	Symbol		min	typ	max	Offic
Collector Cutoff Current	I _{CBO}	V _{CB} =(−)20V, I _E =0			(–)0.1	mA
Emitter Cutoff Current	IEBO	V _{EB} =(-)4V, I _C =0			(–)1.0	mA
DC Current Gain	hr.E1	V _{CE} =(-)2V, I _C =(-)1A	40*		320*	
	nr∈2	V _{CE} =(-)2V, I _C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

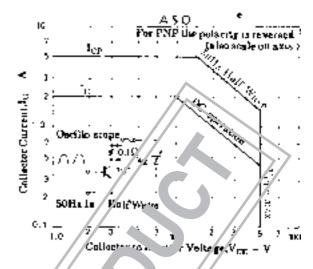
^{*:} The 23B314/2SP220 are 13ssified by 1A n_{FE} as follows:

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

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