

SANYO	No. 397E	2SB514/2SD330
		PNP/NPN Triple Diffused Planar Silicon Transistors 50V/2A Low-Frequency Power Amp Applications

Features

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

() : 2SB514

Absolute Maximum Ratings at Ta = 25°C

Collector-to-Base Voltage	V_{CB0}	(-)50	V	
Collector-to-Emitter Voltage	V_{CEO}	(-)50	V	
Emitter-to-Base Voltage	V_{EBO}	(-)5	V	
Collector Current	I_C	(-)2	A	
Peak Collector Current	i_{cp}	(-)5	A	
Collector Dissipation	P_C	1.75	W	
		20	W	$T_c = 25^\circ C$
Junction Temperature	T_j	150	°C	
Storage Temperature	T_{stg}	-55 to +150	°C	

Electrical Characteristics at Ta = 25°C

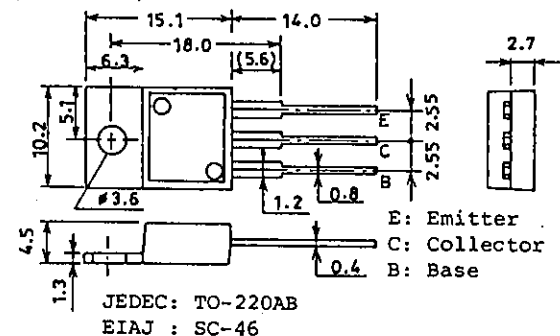
			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = (-)20V, I_E = 0$			(-)0.1	mA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = (-)4V, I_C = 0$			(-)1.0	mA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = (-)2V, I_C = (-)1A$	40*		320*	
	$h_{FE(2)}$	$V_{CE} = (-)2V, I_C = (-)0.1A$	35			
Gain-Bandwidth Product	f_T	$V_{CE} = (-)5V, I_C = (-)0.5A$		8		MHz
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = (-)2A, I_B = (-)0.2A$		(-)1.0		V
Base to Emitter Voltage	V_{BE}	$I_C = (-)1A, V_{CE} = (-)5V$		(-)1.5		V

* The 2SB514/2SD330 are classified by 1A h_{FE} as follows

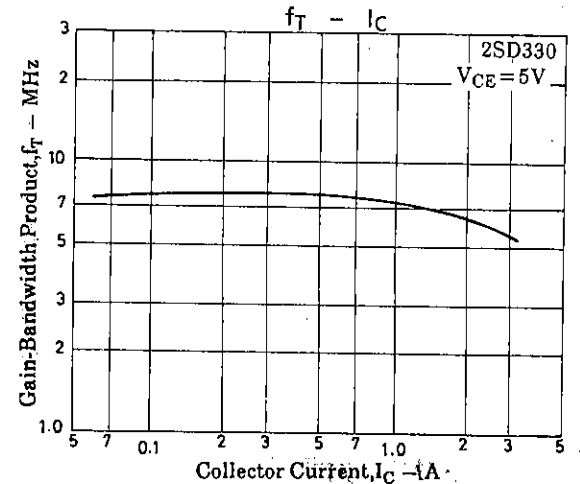
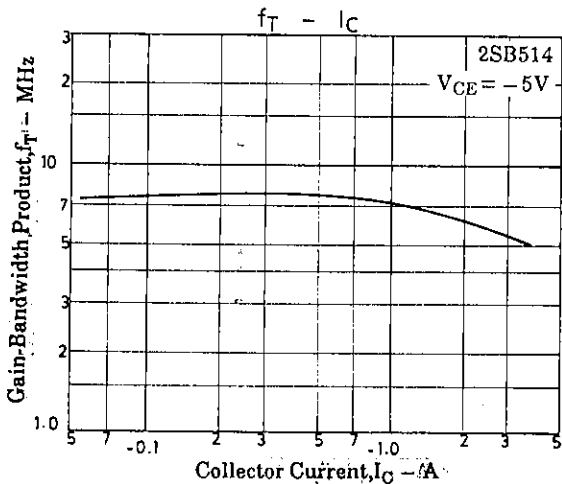
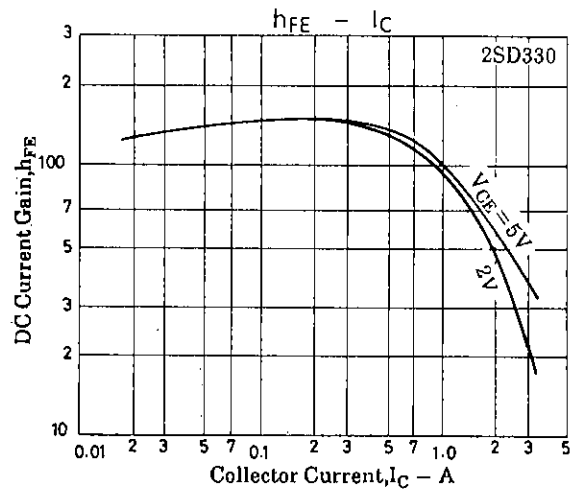
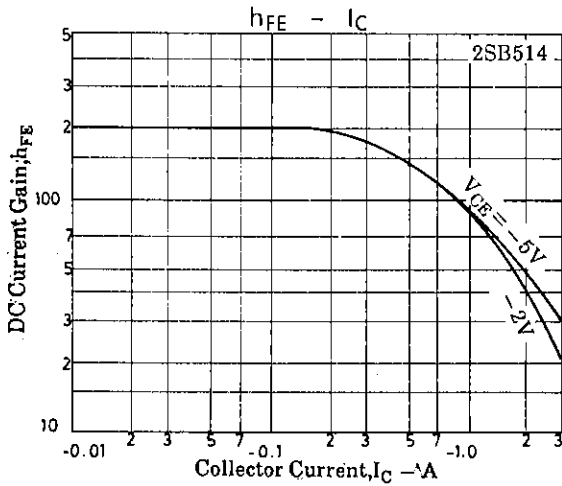
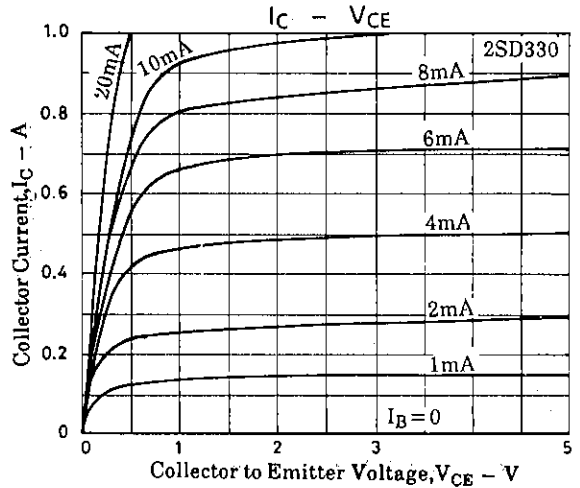
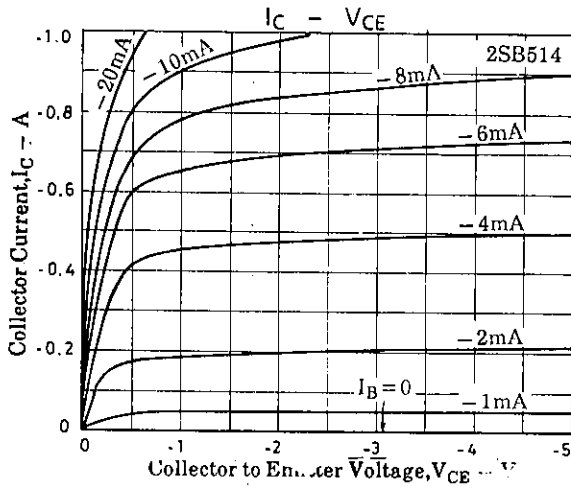
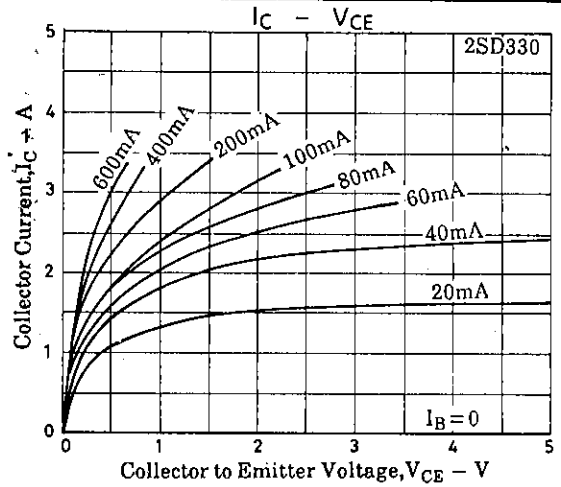
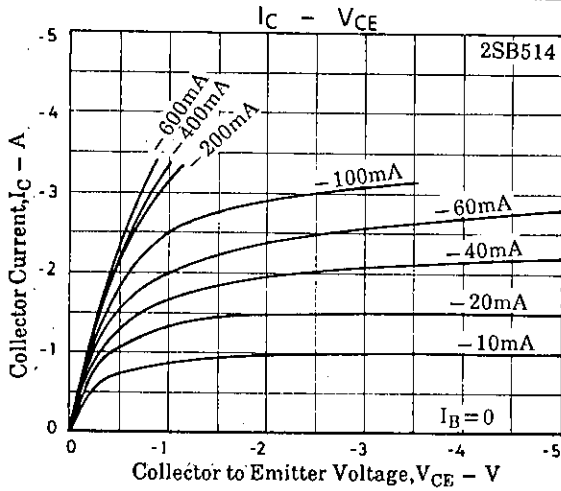
40	C	80	60	D	120	100	E	200	160	F	320
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Package Dimensions 2010B

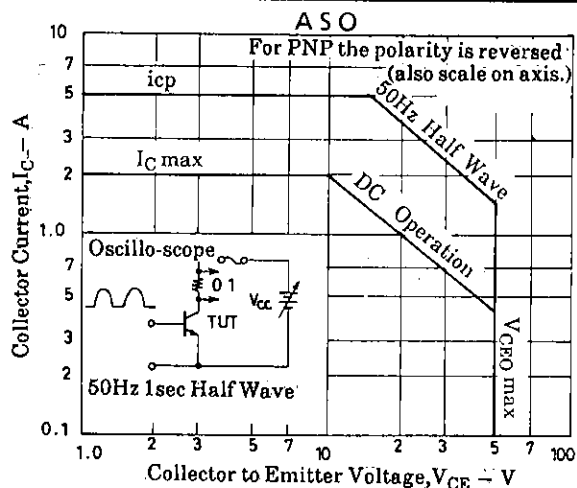
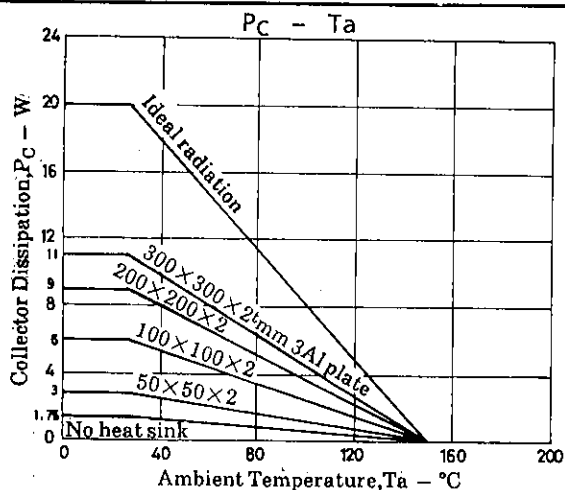
(unit : mm)



2SB514/2SD330



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