

SANYO

No.1256C

2SB1037/2SD1459

PNP/NPN Planar Silicon Transistors

Color TV Vertical Output, Sound Output
Applications**Features**

- High allowable collector dissipation ($P_C = 2W$).
- Wide ASO.

(): 2SB1037

Absolute Maximum Ratings at $T_a = 25^\circ C$

			unit
Collector-to-Base Voltage	V_{CBO}	(-)150	V
Collector-to-Emitter Voltage	V_{CEO}	(-)150	V
Emitter-to-Base Voltage	V_{EBO}	(-)5	V
Collector Current	I_C	(-)1.5	A
Collector Current (Pulse)	I_{CP}	(-)3	A
Collector Dissipation	P_C	2.0	W
		30	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature	T_{stg}	-55 to +150	$^\circ C$

 $T_c = 25^\circ C$ **Electrical Characteristics at $T_a = 25^\circ C$**

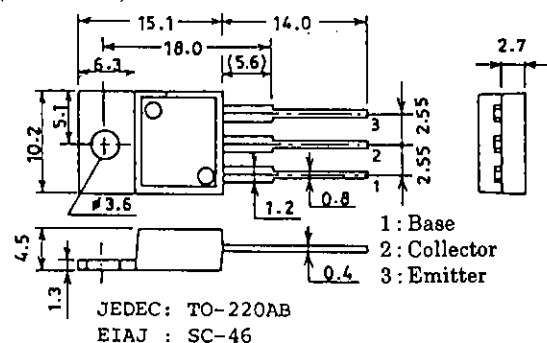
			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = (-)120V$			(-)10	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = (-)5V$			(-)10	μA
DC Current Gain	h_{FE}	$V_{CE} = (-)5V, I_C = (-)0.3A$	70*		200*	
Gain Bandwidth Product	f_T	$V_{CE} = (-)5V, I_C = (-)100mA$		(15)8		MHz
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = (-)500mA, I_B = (-)50mA$			(-)1.5	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = (-)500mA, I_B = (-)50mA$			(-)1.2	V

* : The 2SB1037/2SD1459 are classified by 0.3A h_{FE} as follows :

70	Q	140	100	R	200
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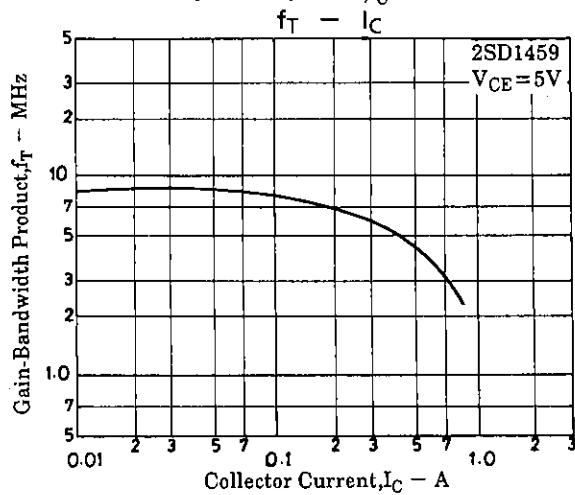
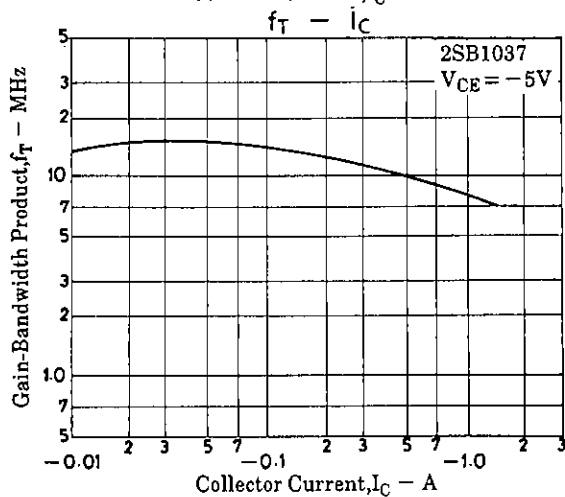
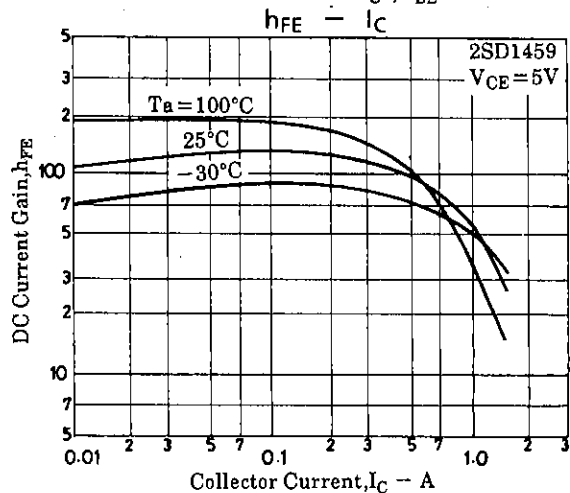
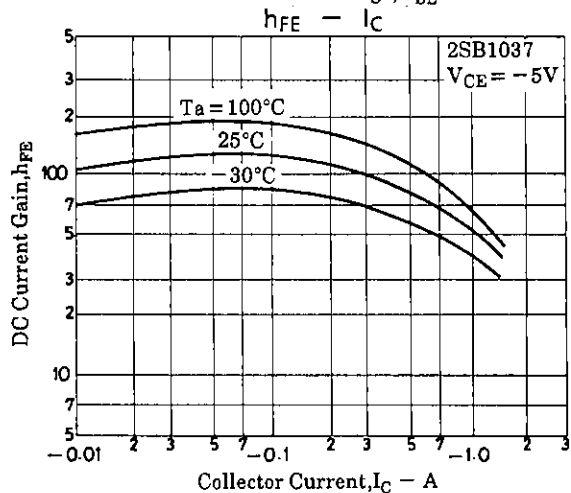
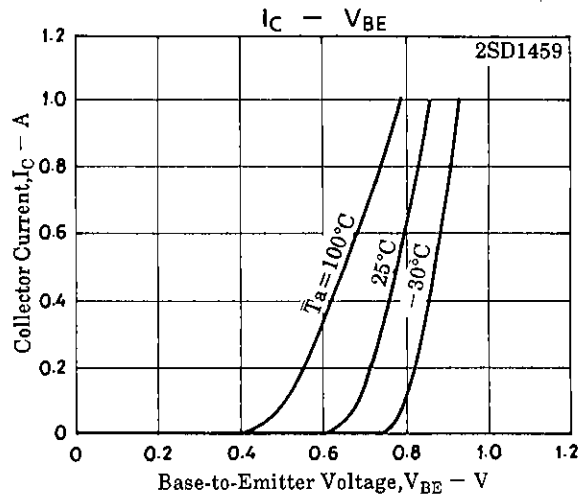
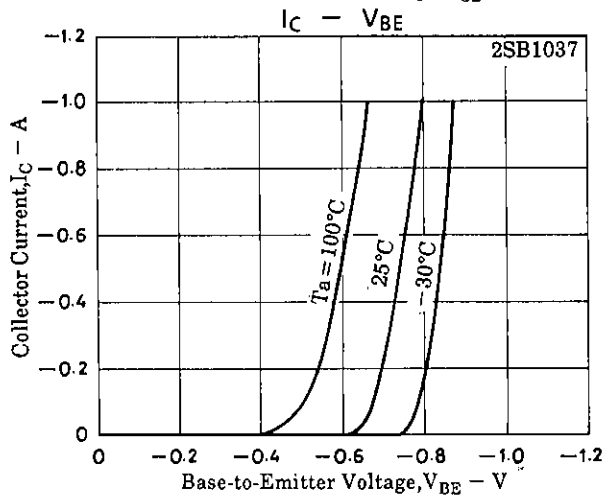
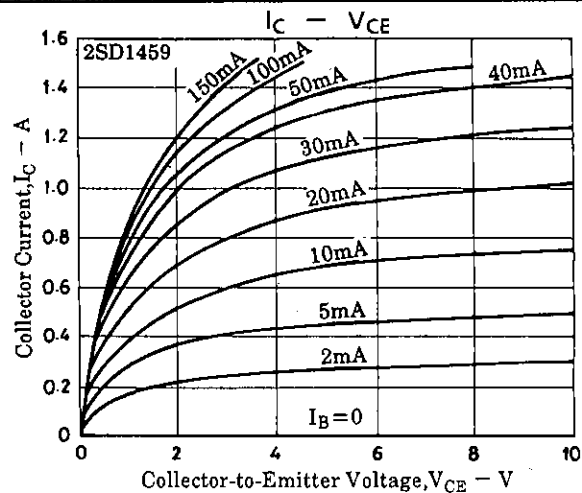
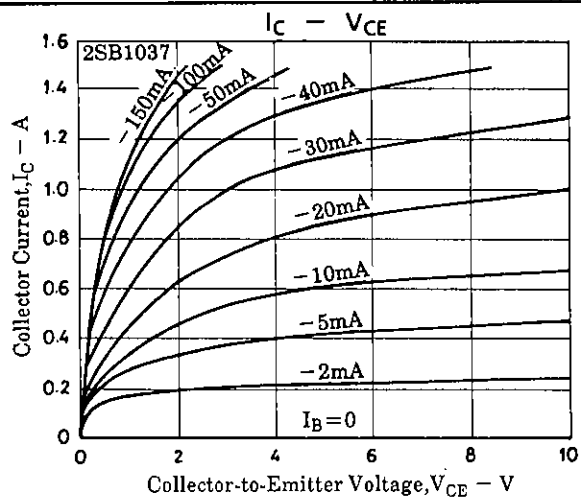
Package Dimensions 2010C

(unit : mm)

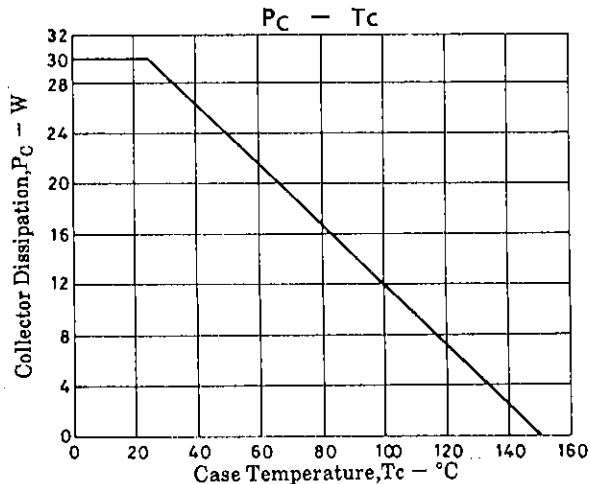
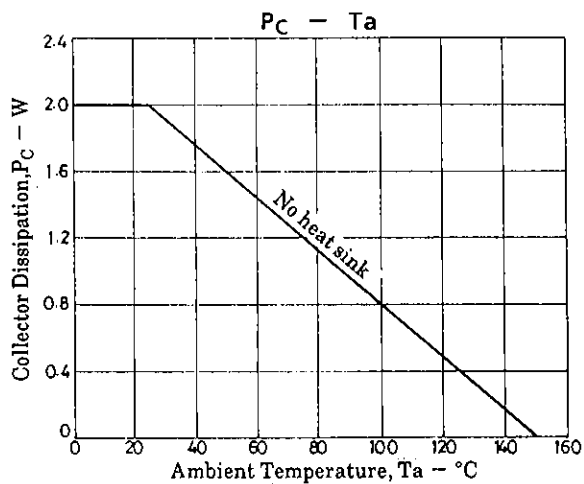
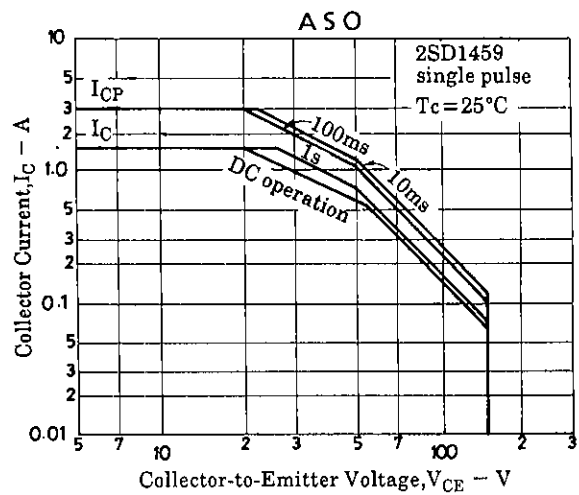
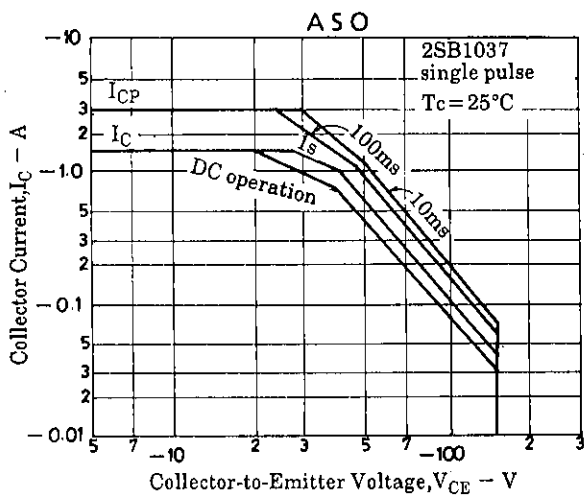
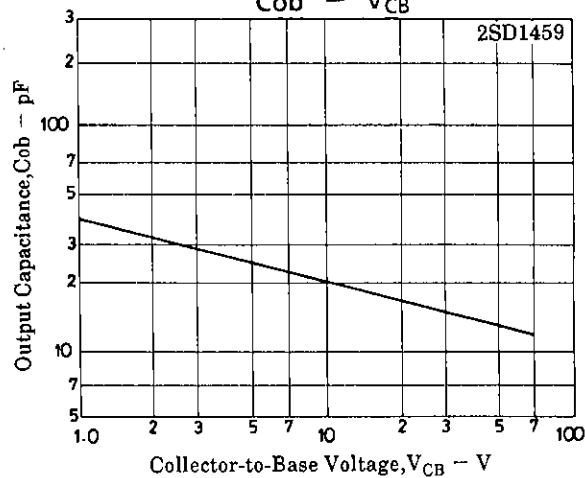
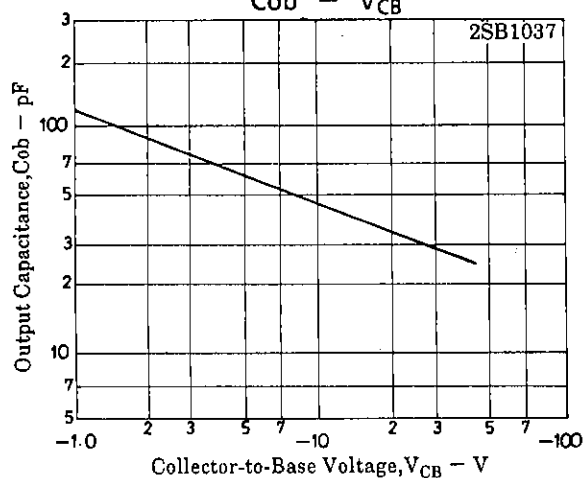
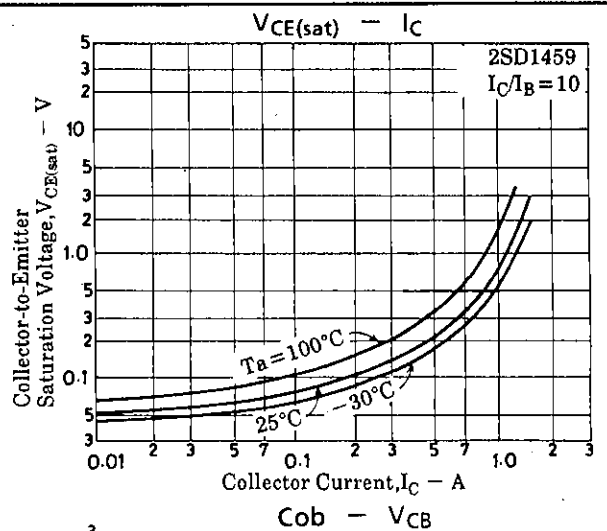
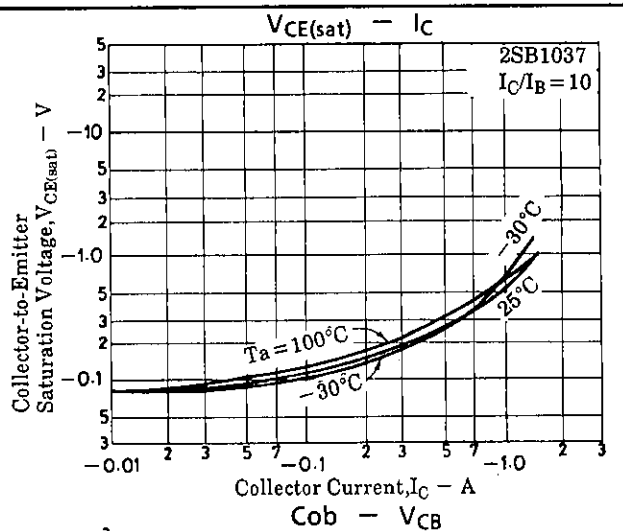
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2SB1037/2SD1459



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