

<b>SANYO</b>	No.1256C	<b>2SB1037/2SD1459</b>
		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	$V_{CB0}$	(-)150	V
Collector-to-Emitter Voltage	$V_{CE0}$	(-)150	V
Emitter-to-Base Voltage	$V_{EB0}$	(-)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	$^\circ C$

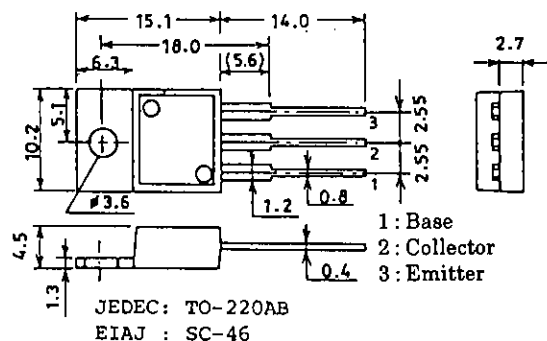
**Electrical Characteristics at  $T_a = 25^\circ C$**

			min	typ	max	unit
Collector Cutoff Current	$I_{CB0}$	$V_{CB} = (-)120V$			(-)10	$\mu A$
Emitter Cutoff Current	$I_{EB0}$	$V_{EB} = (-)5V$			(-)10	$\mu A$
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

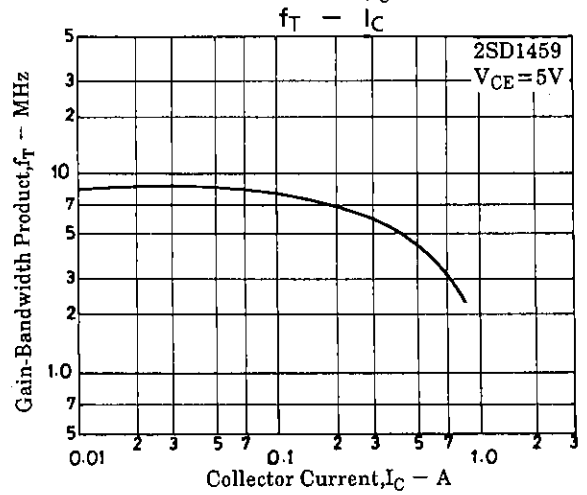
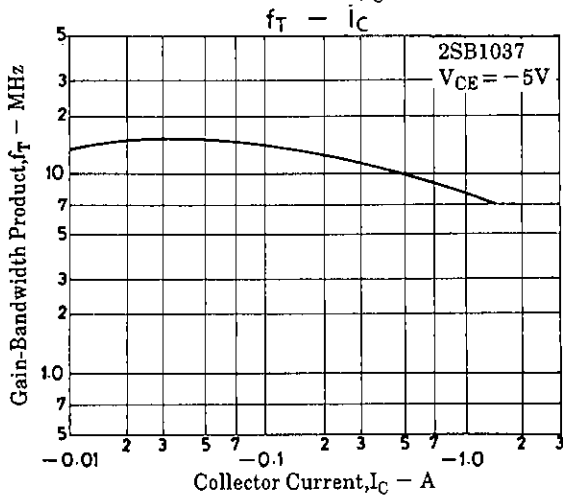
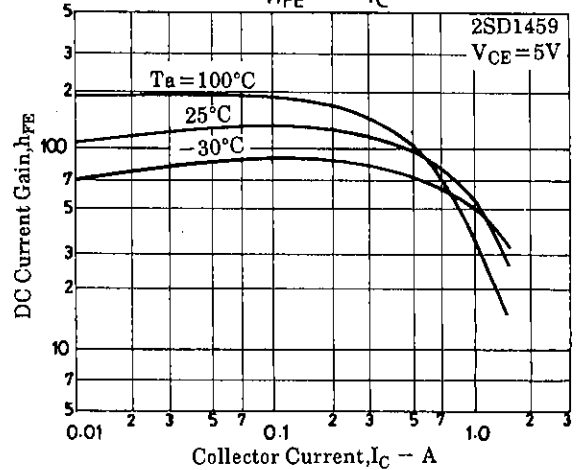
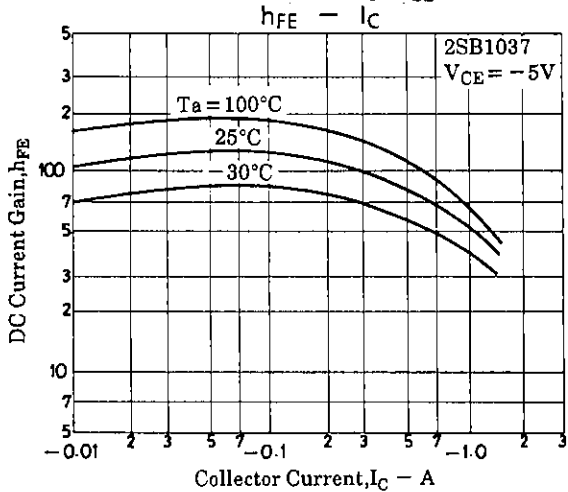
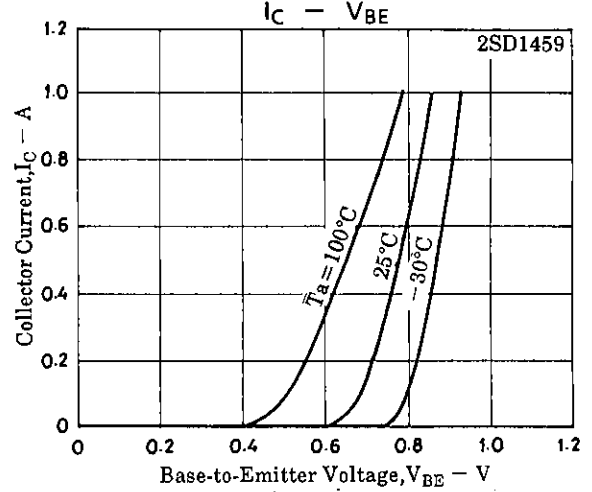
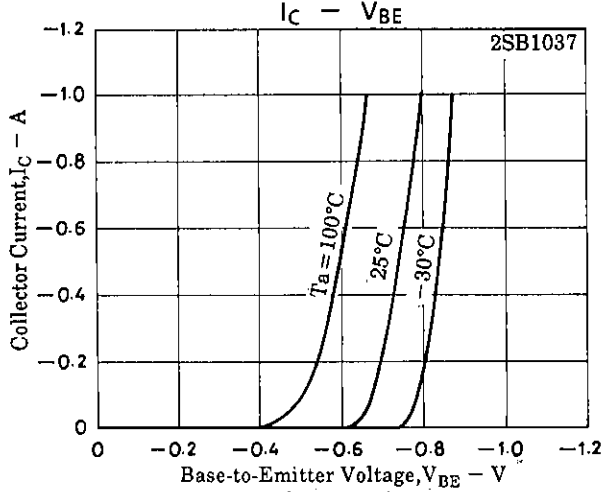
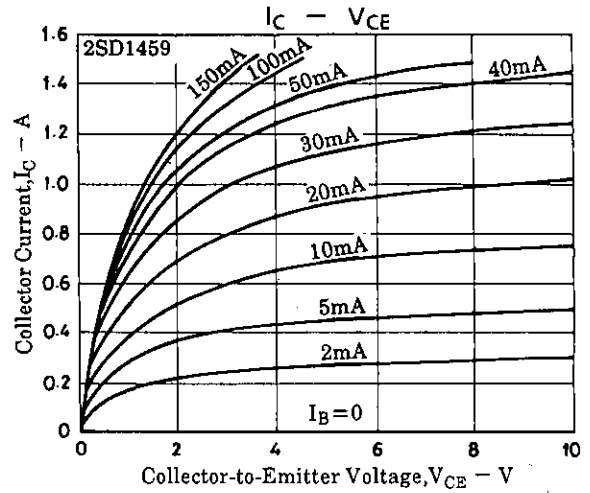
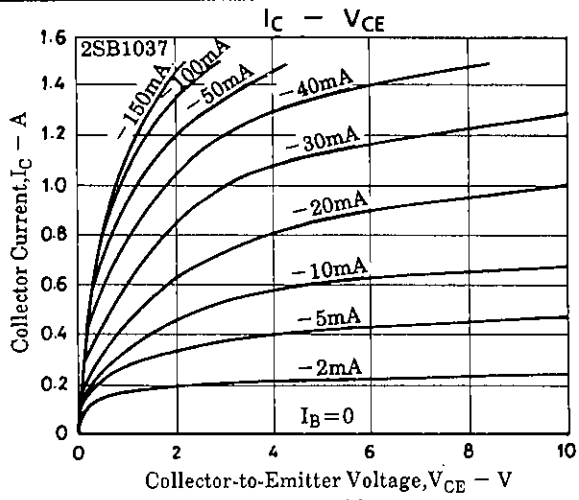
\* : The 2SB1037/2SD1459 are classified by 0.3A  $h_{FE}$  as follows :

70	Q	140	100	R	200
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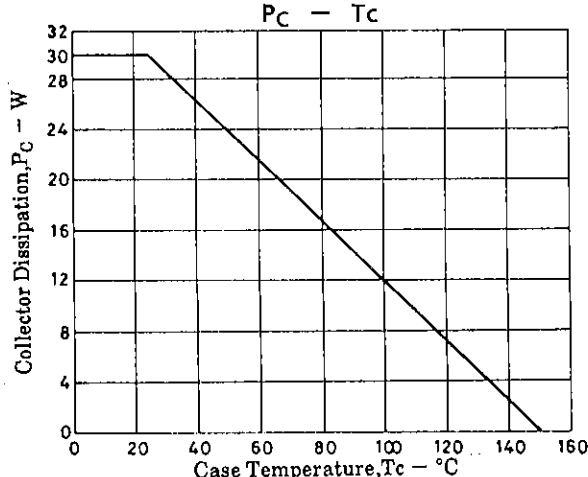
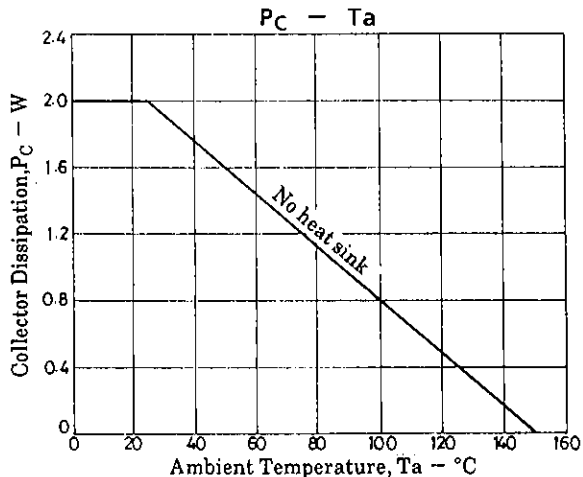
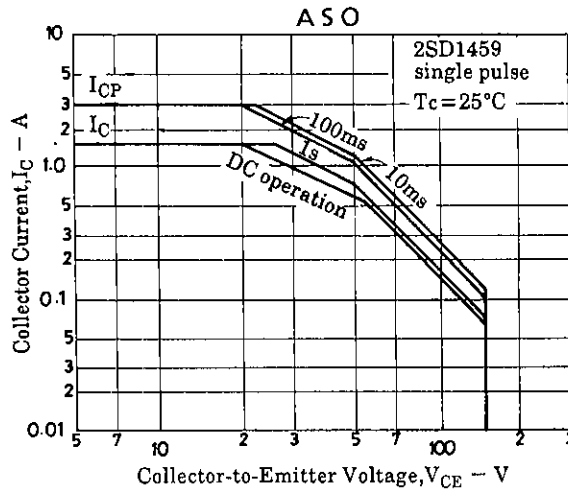
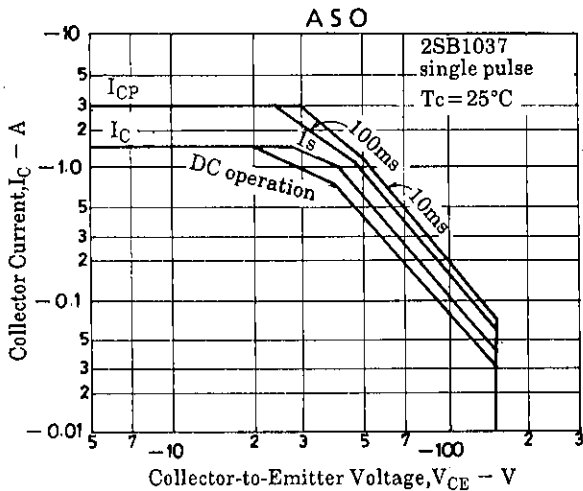
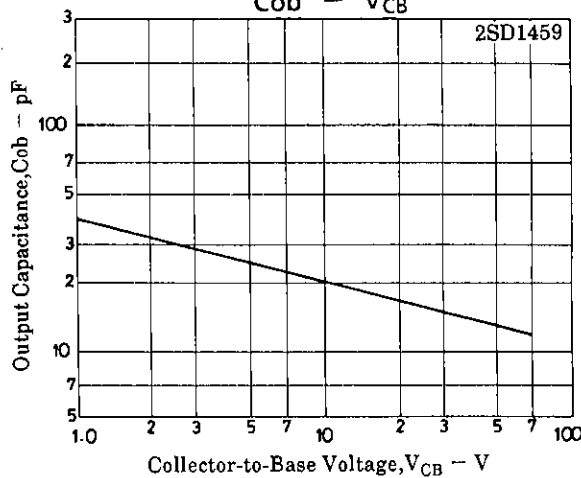
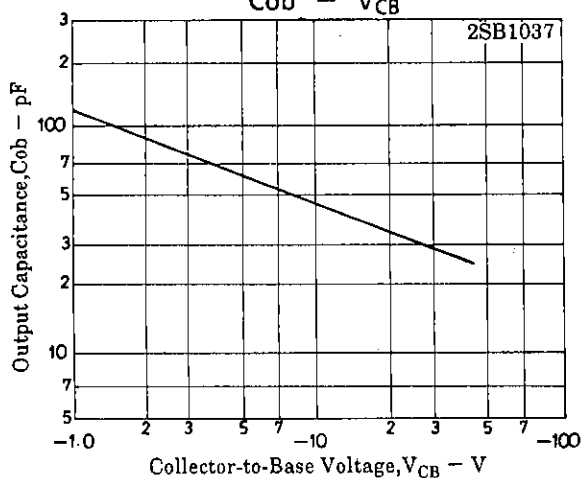
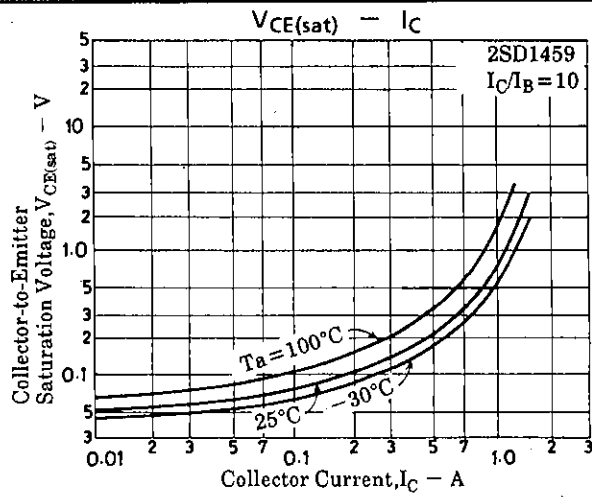
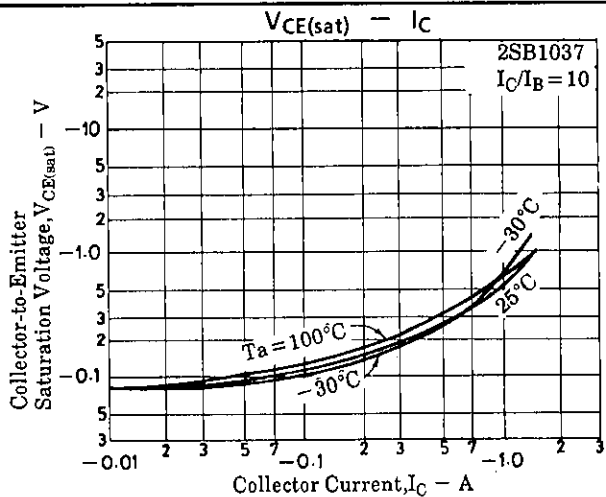
**Package Dimensions 2010C**  
(unit : mm)



2SB1037/2SD1459



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