PNP/NPN Planar Silicon Transistors

2SB1037/2SD1459



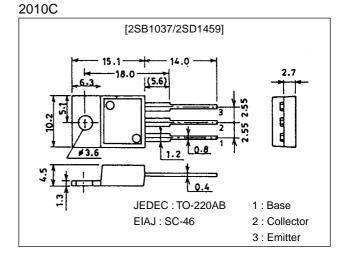
Color TV Vertical Output, Sound Output Applications

Features

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

Package Dimensions

unit:mm



():2SB1037

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		(–)150	V
Collector-to-Emitter Voltage	VCEO		(–)150	V
Emitter-to-Base Voltage	V _{EBO}		(–)5	V
Collector Current	۱ _C		(–)1.5	A
Collector Current (Pulse)	ICP		(–)3	A
Collector Dissipation	PC		2.0	W
		Tc=25°C	30	W
Junction Temperature	Tj		175	°C
Storage Temperature	Tstg		-55 to +175	°C

Electrical Characteristics at Ta = 25°C

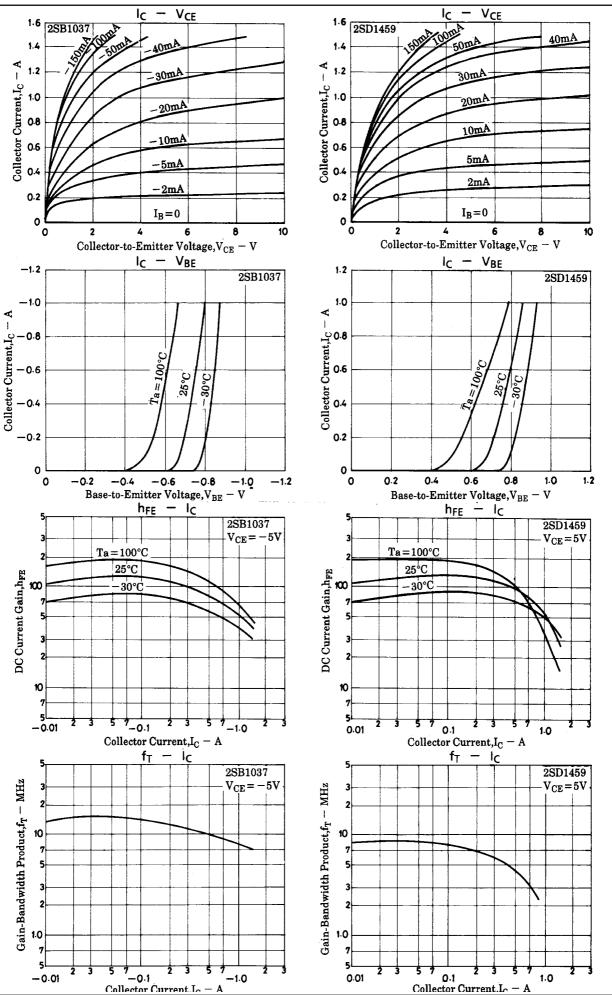
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =(-)120V			(–)10	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)5V			(–)10	μA
DC Current Gain	h _{FE}	V _{CE} =(-)5V, I _C =(-)0.3A	70*		200*	
Gain Bandwidth Product	fT	V _{CE} =(-)5V, I _C =(-)100mA		(15)8		MHz
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)500mA, I _B =(-)50mA			(–)1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)500mA, I _B =(-)50mA			(–)1.2	V

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

70 Q 140 100 R 200

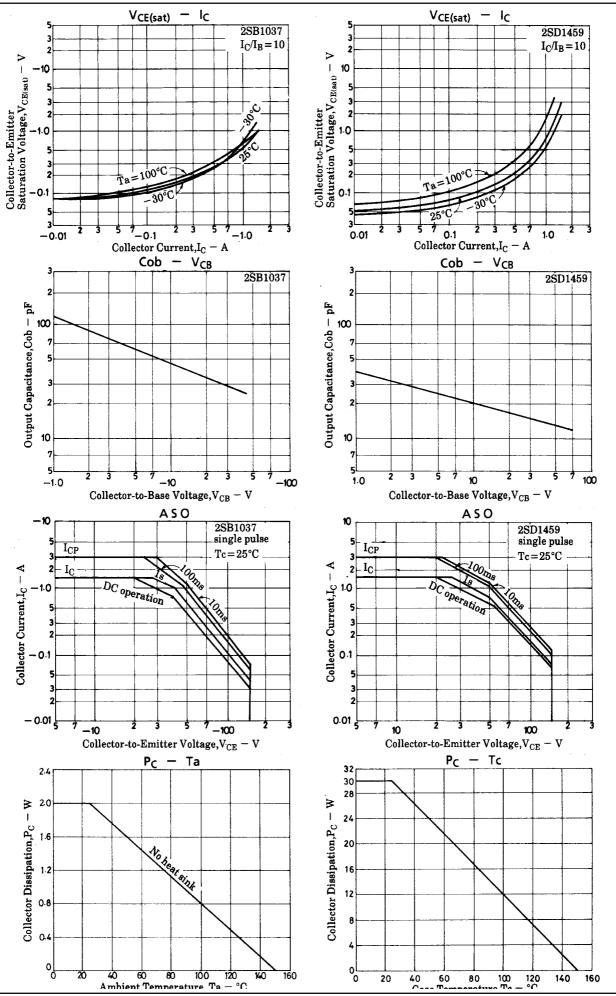
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2SB1037/2SD1459

No.1256-2/4



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