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### Ordering number:EN3644

PNP/NPN Epitaxial Planar Silicon Transistors

# 2SA1777/2SC4623

# Very High-Definition CRT Display Video Output Applications

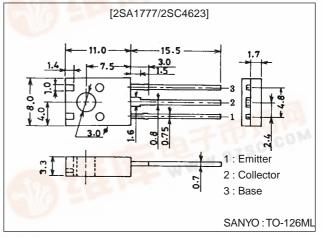
#### **Features**

- · High  $f_T$  :  $f_T$ =400MHz (typ).
- · High breakdown voltage :  $V_{CEO} \ge 250 V(min)$ .
- · High current.
- Small reverse transfer capacitance and excellent high-frequnecy characteristic :  $C_{re}=3.4pF$  (NPN), 4.2pF (PNP).
- Complementary pair with the 2SA1777/2SC4623.
- · Adoption of FBET process.

## **Package Dimensions**

#### unit:mm





():2SA1777

# **Specifications**

#### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V <sub>CBO</sub>		(–)250	V
Collector-to-Emitter Voltage	VCEO		(-)250	V
Emitter-to-Base Voltage	VEBO		(-)3	V
Collector Current	۱ <sub>C</sub>		(-)300	mA
Colletor Current (Pulse)	I <sub>CP</sub>	A Real Property of the second	(–)600	mA
Collector Dissipation	PC		1.3	W
		Tc=25°C	10	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg	and a	-55 to +150	°C

#### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	ICBO	V <sub>CB</sub> =(-)150V, I <sub>E</sub> =0			(–)0.1	μA
Emitter Cutoff Current	IEBO	V <sub>EB</sub> =(-)2V, I <sub>C</sub> =0			(–)1.0	μA
DC Current Gain	h <sub>FE</sub> 1	V <sub>CE</sub> =(-)10V, I <sub>C</sub> =(-)50mA	40*	1	200*	ALD.
	h <sub>FE</sub> 2	V <sub>CE</sub> =(-)10V, I <sub>C</sub> =(-)250mA	20	1.01	SC-	100
Gain-Bandwidth Product	fT	V <sub>CE</sub> =(-)30V, I <sub>C</sub> =(-)100mA	an M	400		MHz
Output Capacitance	Cob	V <sub>CB</sub> =(-)30V, f=1MHz	100	(5.0)		pF
				4.2		pF
Reverse Transfer Capacitance	Cre	V <sub>CB</sub> =(-)30V, f=1MHz		(4.2)		pF
1	- TP >	Mag		3.4		pF

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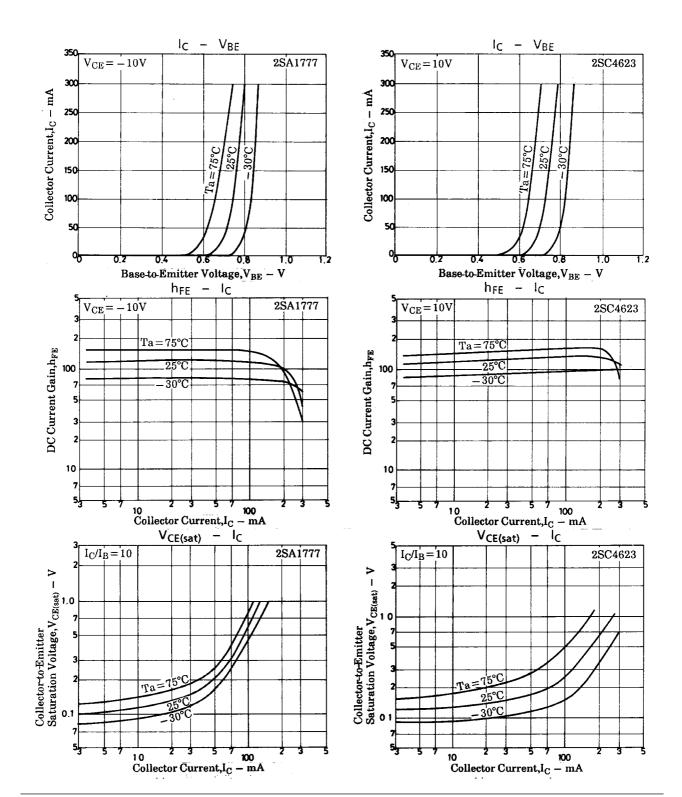
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## 2SA1777/2SC4623

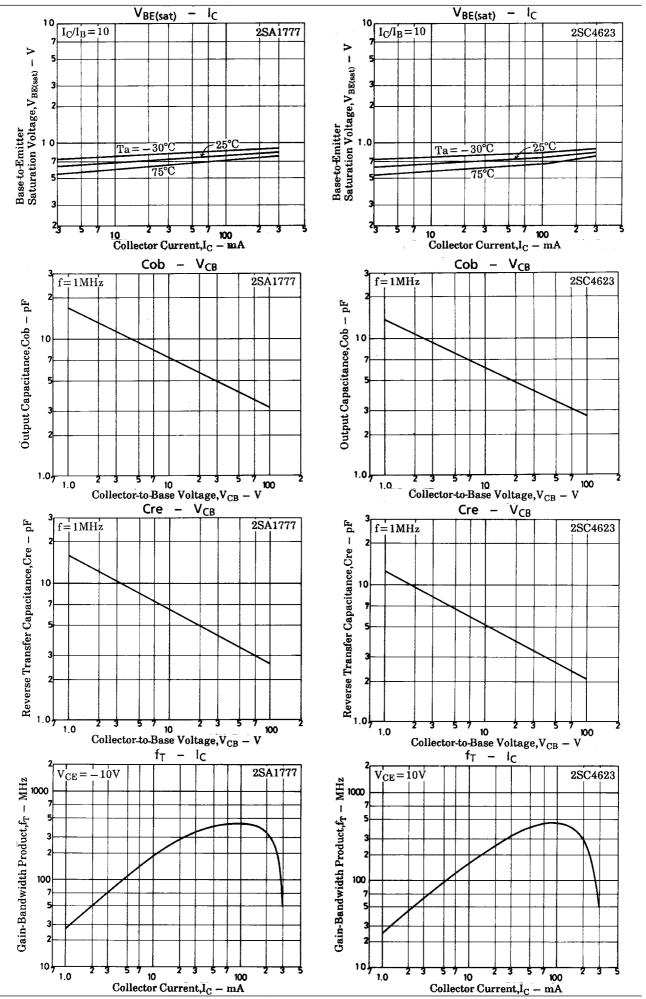
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol	Conditions	min	typ	max	Offic
Collector-to-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =(-)50mA, I <sub>B</sub> =(-)5mA			(–)1.0	V
Base-to-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =(–)50mA, I <sub>B</sub> =(–)5mA			(–)1.0	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I <sub>C</sub> =(-)10µA, I <sub>E</sub> =0	(–)250			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I <sub>C</sub> =(−)1mA, R <sub>BE</sub> =∞	(–)250			V
Emitter-to-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =(-)10μA, I <sub>C</sub> =0	(–)3			V

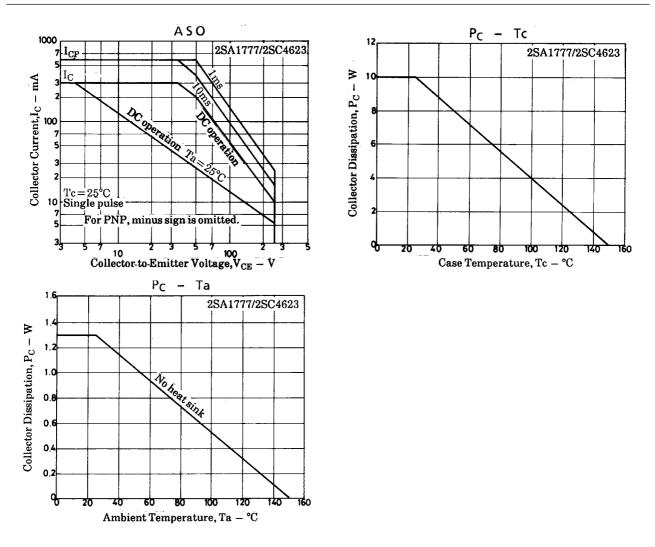
 $\ast$  : The 2SA1777/2SC4623 are classified by 50mA  $h_{FE}$  as follows :

40 C 80	60 D 120	100 E 200
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2SA1777/2SC4623





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