

2SA1537/2SC3952

High-Definition CRT Display Video Output Applications

Applications

 \cdot High-definition CRT display video output, wide-band amplifier.

Features

- · High f_T : f_T =700MHz.
- · High breakdown voltage : V_{CEO}=70Vmin.
- · Small reverse transfer capacitance and excellent high-frequency characteristic :
- · Complementary PNP and NPN types.

C_{re}=3.1pF/NPN, 4.8pF/PNP.

- · Adoption of FBET process.
- · Micaless type.

(): 2SA1537

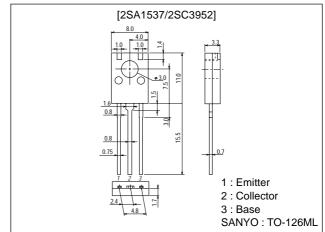
Specifications

Absolute Maximum Ratings at Ta = 25°C

Package Dimensions

unit:mm

2042B



Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		(–)80	V
Collector-to-Emitter Voltage	VCEO		(–)70	V
Emitter-to-Base Voltage	V _{EBO}		(–)3	V
Collector Current	IC		(–)500	mA
Peak Collector Current	ICP		(-)1000	mA
Collector Dissipation	PC		1.3	W
		Tc=25°C	10	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offit
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)60V, I _E =0			(-)0.1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)2V, I _C =0			(-)1.0	μΑ
DC Current Gain	h _{FE} 1	V _{CE} =(-)10V, I _C =(-)50mA	40*		320*	
	h _{FE} 2	V _{CE} =(-)10V, I _C =(-)300mA	60			
Gain-Bandwidth Product	f _T	V _{CE} =(-)10V, I _C =(-)100mA		700		MHz

^{*} h_{FE}1 : The 2SA1537/2SC3952 are classified by 50mA h_{FE} as follows :

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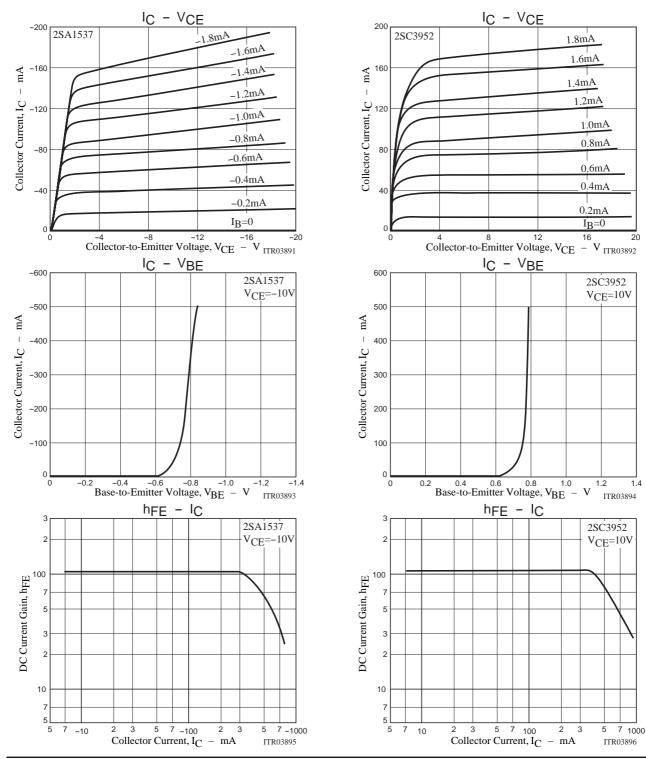
Rank	С	D	E	F
hFE	40 to 80	60 to 120	100 to 200	160 to 320

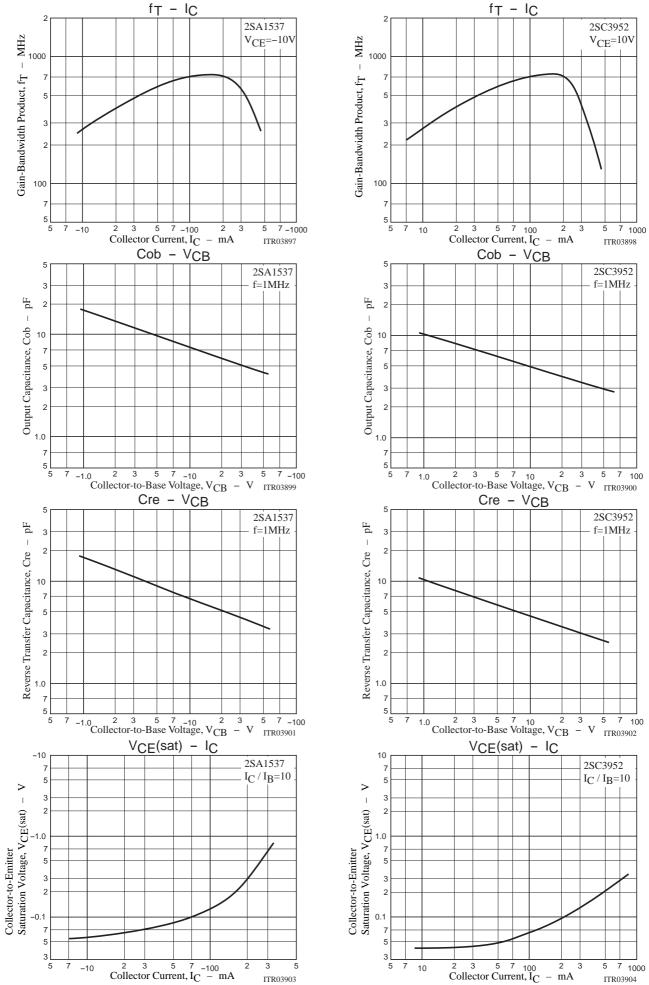
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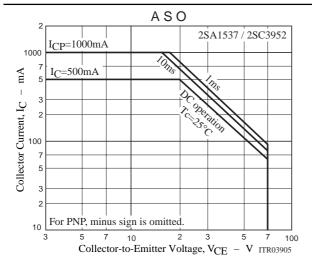
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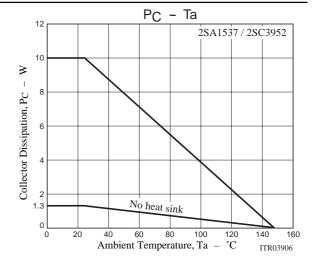
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Output Capacitance	C _{ob}	V _{CB} =(-)30V, f=1MHz		3.6		pF
				(5.4)		pF
Reverse Transfer Capacitance	C _{re}	V _{CB} =(-)30V, f=1MHz		3.1		pF
				(4.8)		pF
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =(-)70mA, I _B =(-)7mA			(-)1.0	V
Emitter-to-Base Saturation Voltage	V _{BE(sat)}	I _C =(-)70mA, I _B =(-)7mA			(-)1.0	V





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