

High Definition CRT Display Video Output Applications

Applications

• High definition CRT display video output, wide-band amplifer.

Features

- · Adoption of FBET process.
- High $f_T : f_T = 300MHz(typ)$.
- · High breakdown voltage: VCEO=200V.
- Small reverse transfer capacitance and excellent high -frequency characteristic :
 - Cre=1.5pF / NPN, 1.8pF / PNP.
- Shipped in reel tape container to facilitate antomatic mounting.

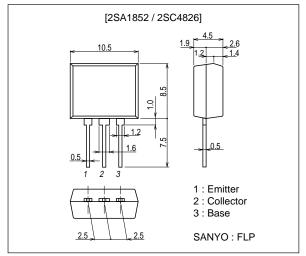
Specifications

(): 2SA1852

Absolute Maximum Ratings at Ta=25°C

Package Dimensions

unit : mm 2084B



Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		(-)200	V
Collector-to-Emitter Voltage	VCEO		(-)200	V
Emitter-to-Base Voltage	VEBO		(-)3	V
Collector Current	IC		(-)100	mA
Collector Current (Pulse)	ICP		(-)200	mA
Base Current	IB		(-)20	mA
Collector Dissipation	PC		1.3	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Office
Collector Cutoff Current	ICBO	V _{CB} =(-)150V, I _E =0			(-)0.1	μА
Emitter Cutoff Current	IFBO	VER=(-)2V, IC=0			(-)1.0	μА

Continued on next page.

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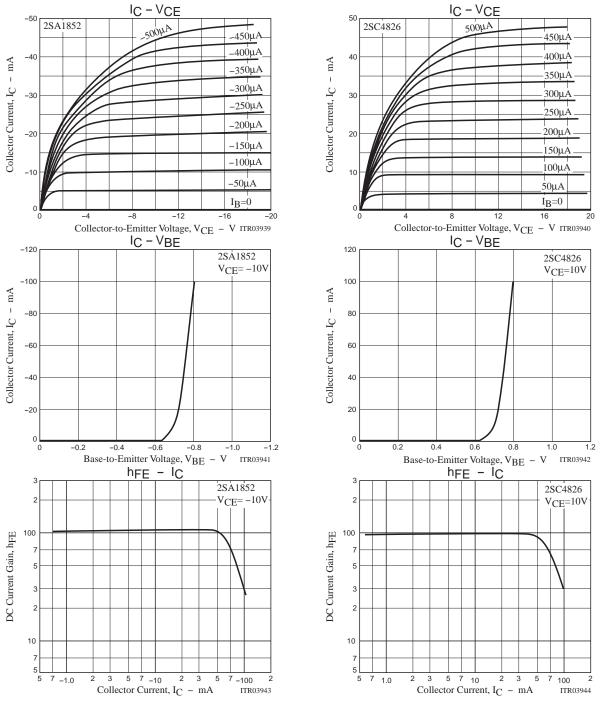
SANYO Electric Co.,Ltd. Semiconductor Company
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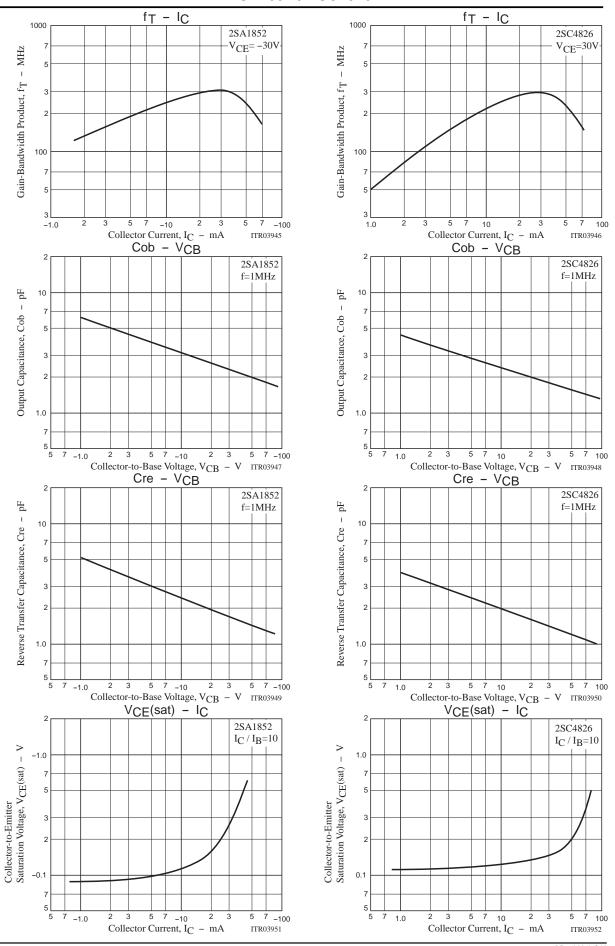
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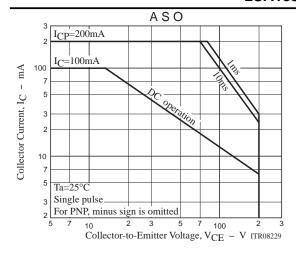
Parameter	Symbol	Conditions	Ratings			Unit
Faranielei			min	typ	max	Oilit
DC Current Gain	hFE1	V _{CE} =(-)10V, I _C =(-)10mA	60*		320*	
	hFE2	V _{CE} =(-)10V, I _C =(-)50mA	20			
Gain-Bandwidth Product	width Product fT VCE=(-			300		MHz
Output Capacitance	Cob	V _{CB} =(-)30V, f=1MHz		(2.4)1.9		pF
Reverse Transfer Capacitance	Cre	V _{CB} =(-)30V, f=1MHz		(1.8)1.5		pF
Collector-to-Emitter Saturation Voltage	0 0E() 0 () , B ()				(-)1.0	V
Base-to-Emitter Saturation Voltage					(-)1.0	V

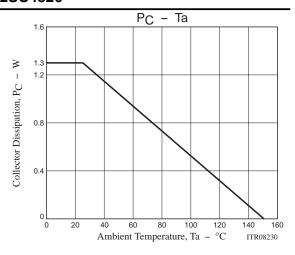
*: The 2SA1852 / 2SC4826 are classified by 10mA hFE as follows:

Rank	D	Е	F	
hFE	60 to 120	100 to 200	160 to 320	









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