

High-Definition CRT Display Video Output Applications

- High-definition CRT display video output, wide-band amp

- High f_T : $f_T = 600\text{MHz}$
- High breakdown voltage: $V_{CEO} = 70\text{Vmin}$
- Small reverse transfer capacitance and excellent high-frequency characteristic: $c_{re} = 1.9\text{pF/NPN}$, 2.4pF/PNP .
- Complementary PNP and NPN types
- Adoption of FBET process
- Micaless type

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Collector-to-Base Voltage	V_{CBO}	(-)80	V
Collector-to-Emitter Voltage	V_{CEO}	(-)70	V
Emitter-to-Base Voltage	V_{EBO}	(-)3	V
Collector Current	I_C	(-)300	mA
Peak Collector Current	i_{cp}	(-)600	mA
Collector Dissipation	P_C	1.3	W
	$T_c = 25^\circ\text{C}$	8	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics at $T_A = 25^\circ\text{C}$			mm	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = (-)60\text{V}, I_E = 0$			$(-)0.1$	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = (-)2\text{V}, I_C = 0$			$(-)1.0$	μA
DC Current Gain	h_{FE1}	$V_{CE} = (-)10\text{V}, I_C = (-)50\text{mA}$	40※		320※	
	h_{FE2}	$V_{CE} = (-)10\text{V}, I_C = (-)200\text{mA}$	20			
Gain-Bandwidth Product	f_T	$V_{CE} = (-)10\text{V}, I_C = (-)100\text{mA}$		600		MHz
Output Capacitance	c_{ob}	$V_{CB} = (-)30\text{V}, f = 1\text{MHz}$		2.4		pF
				(3.1)		pF
Reverse Transfer Capacitance	c_{re}	$V_{CB} = (-)30\text{V}, f = 1\text{MHz}$		1.9		pF
				(2.4)		pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = (-)50\text{mA}, I_B = (-)5\text{mA}$			$(-)1.0$	V
E-B Saturation Voltage	$V_{BE(sat)}$	$I_C = (-)50\text{mA}, I_B = (-)5\text{mA}$			$(-)1.0$	V

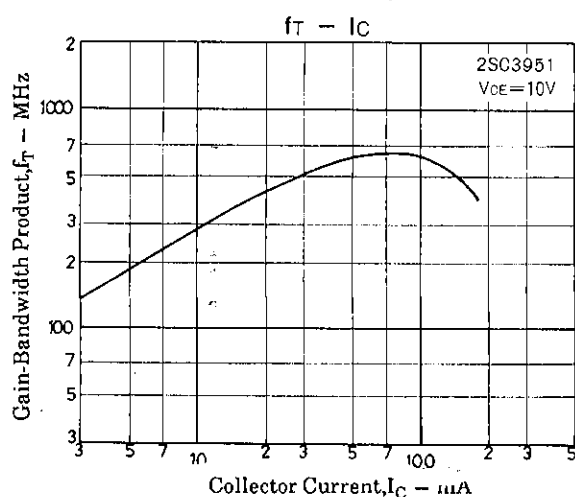
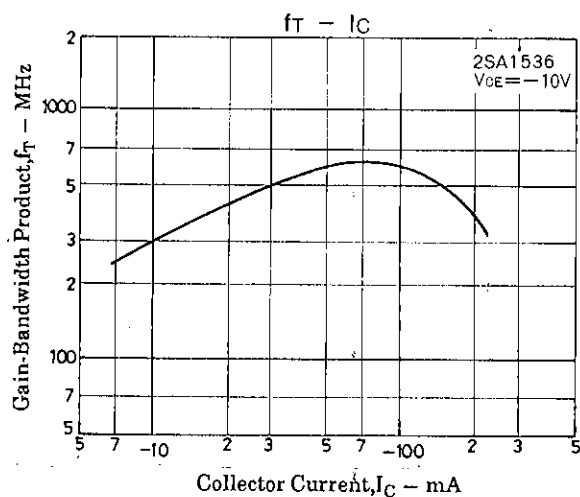
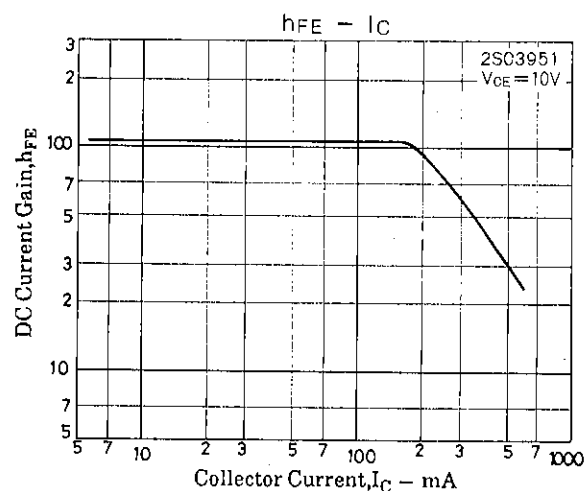
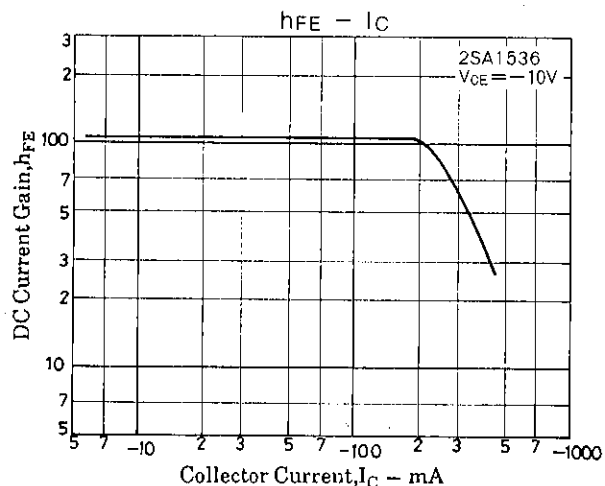
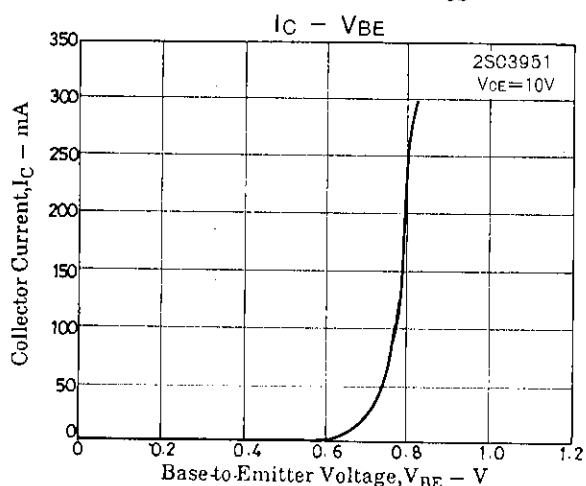
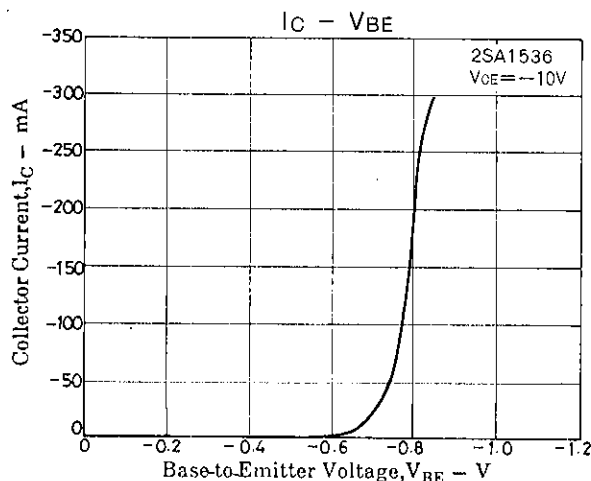
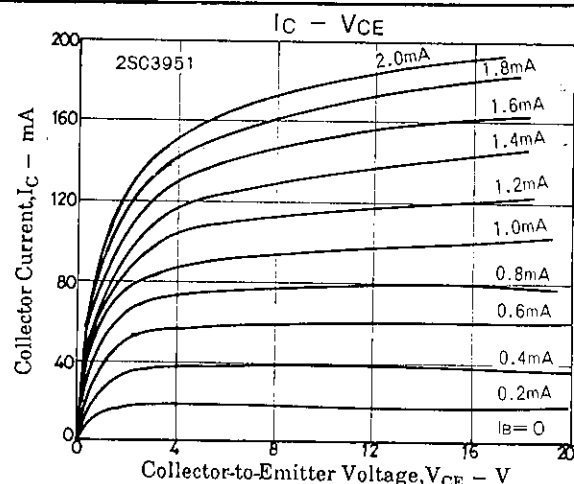
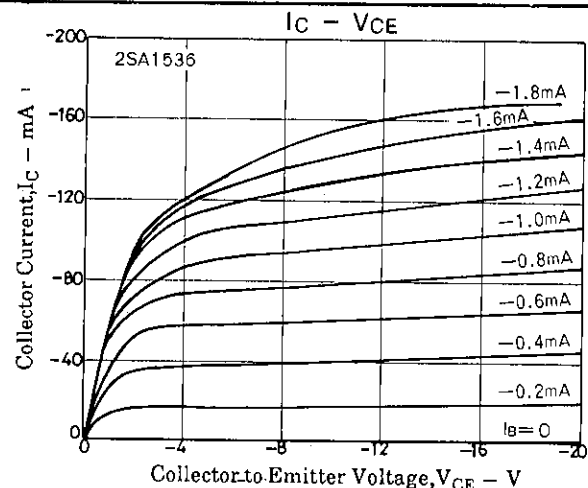
40	C	80	60	D	120	100	E	200	160	F	320
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B: Base
 C: Collector
 E: Emitter

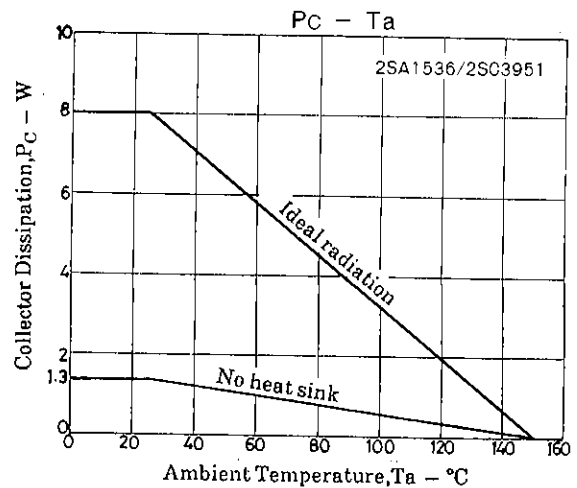
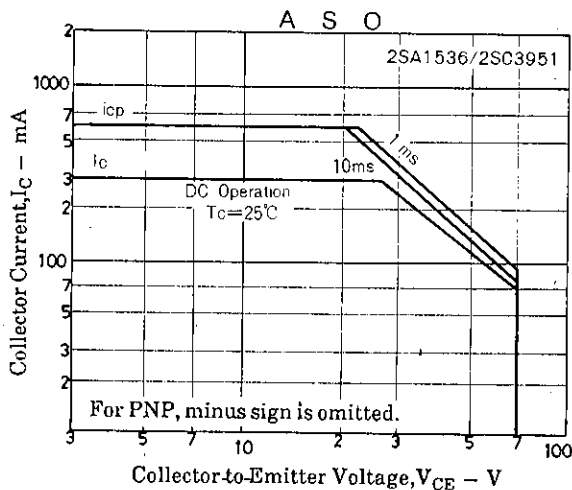
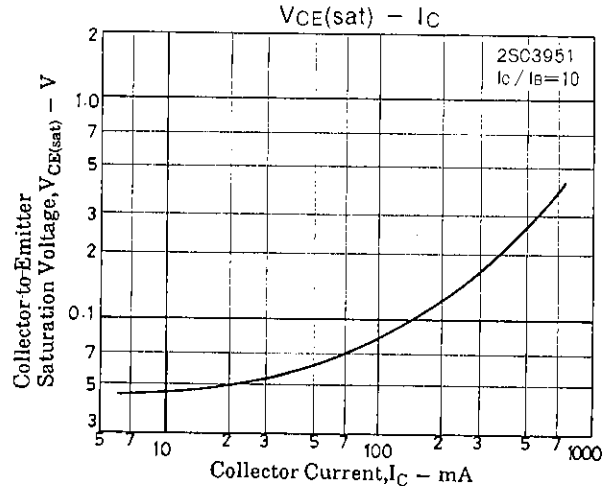
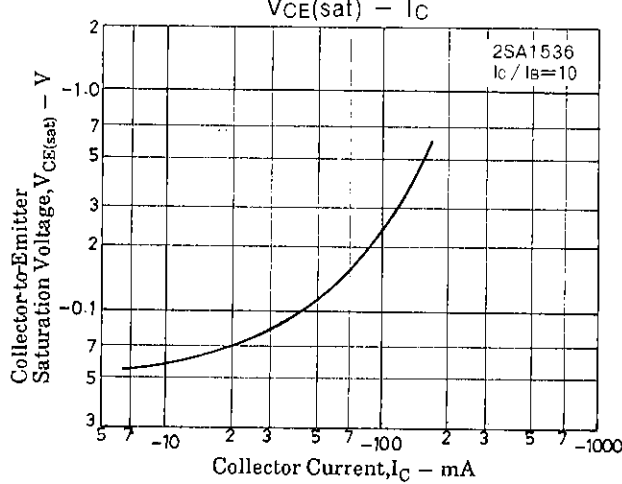
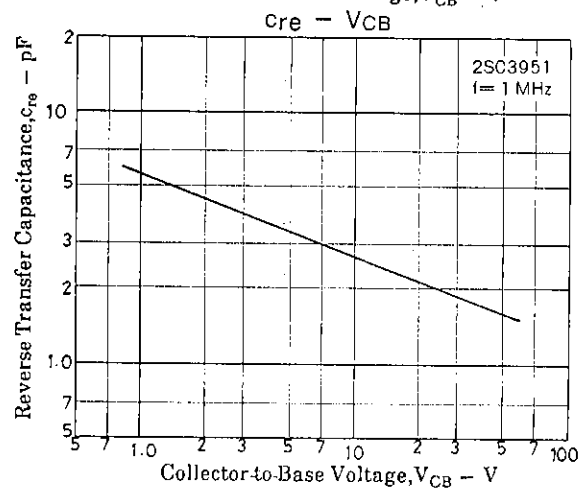
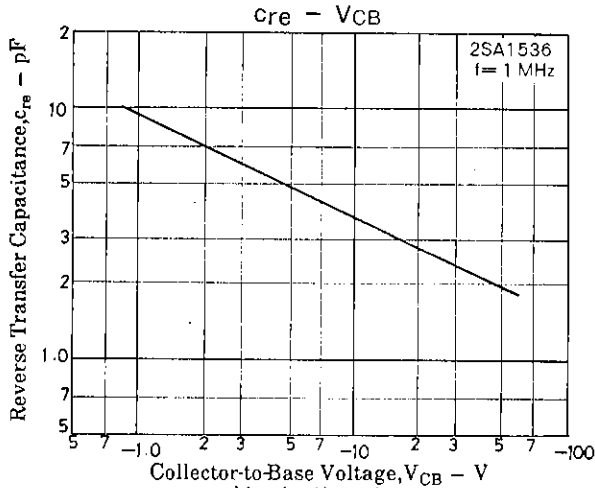
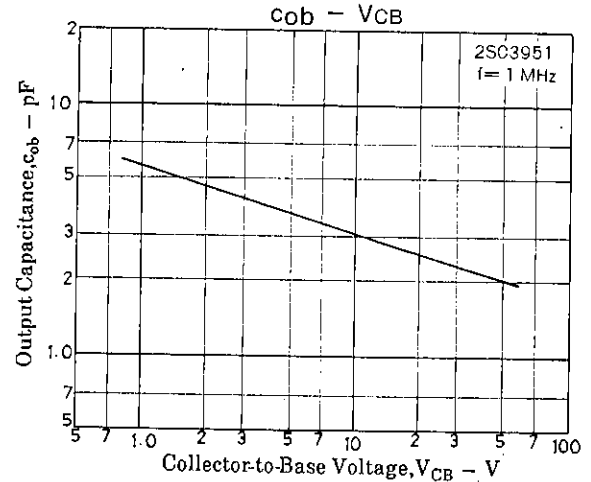
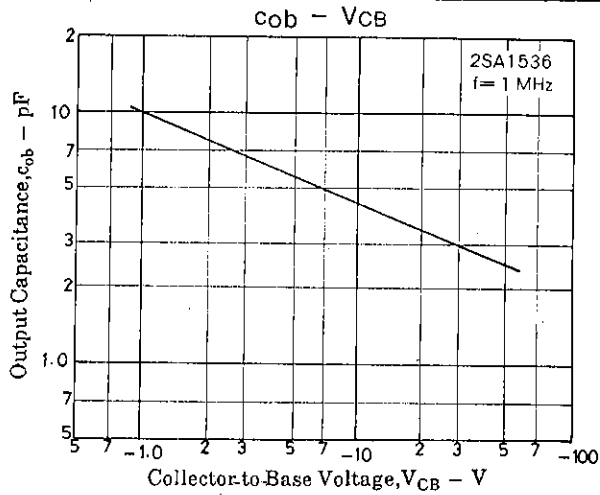
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