

SANYO	No.3581	2SA1787/2SC4650
		PNP/NPN Epitaxial Planar Silicon Transistors High-Definition CRT Display Video Output Applications

Features

- High breakdown voltage : $V_{CEO} \geq 200V$
- Small reverse transfer capacitance and excellent high frequency characteristic
: $c_{re} = 1.2pF(NPN), 1.7pF(PNP)$
- Adoption of FBET processes

() : 2SA1786

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

			unit
Collector to Base Voltage	V_{CBO}	(-)200	V
Collector to Emitter Voltage	V_{CEO}	(-)200	V
Emitter to Base Voltage	V_{EBO}	(-)5	V
Collector Current	I_C	(-)100	mA
Collector Current(Pulse)	I_{CP}	(-)200	mA
Collector Dissipation	P_C	1.0	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature	T_{stg}	-55 to +150	$^\circ C$

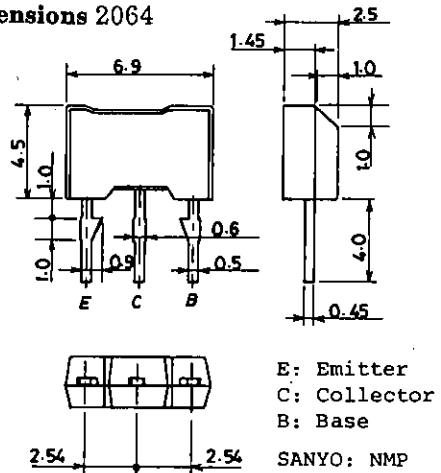
Electrical Characteristics at $T_a = 25^\circ C$

			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = (-)150V, I_E = 0$			(-)0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = (-)4V, I_C = 0$			(-)0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = (-)10V, I_C = (-)10mA$	60		320	
Gain-Bandwidth Product	f_T	$V_{CE} = (-)30V, I_C = (-)10mA$		150		MHz
Output Capacitance	c_{ob}	$V_{CB} = (-)30V, f = 1MHz$		(2.6)1.7		pF
Reverse Transfer Capacitance	c_{re}	$V_{CB} = (-)30V, f = 1MHz$		(1.7)1.2		pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = (-)20mA, I_B = (-)2mA$			(-)0.6	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = (-)20mA, I_B = (-)2mA$			(-)1.0	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C = (-)10\mu A, I_E = 0$	(-)200			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = (-)1mA, R_{BE} = \infty$	(-)200			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E = (-)10\mu A, I_C = 0$	(-)5			V

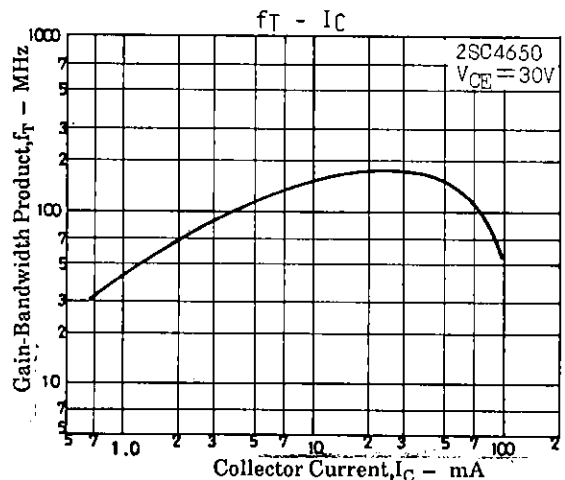
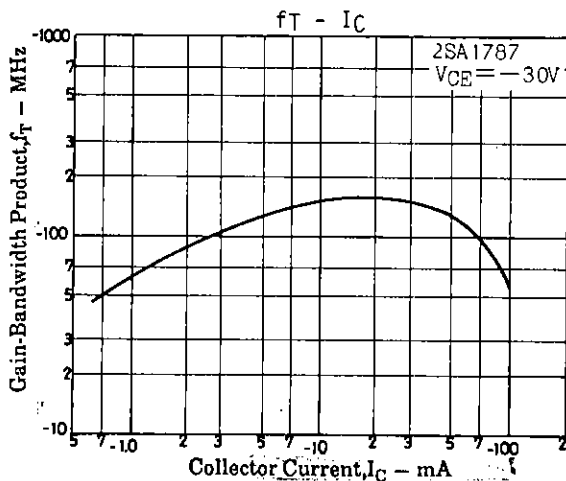
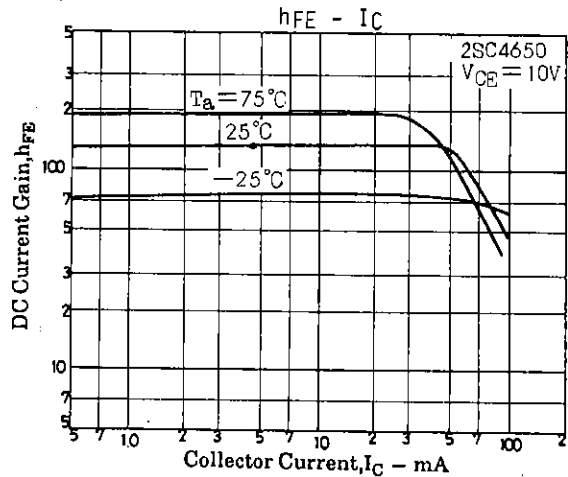
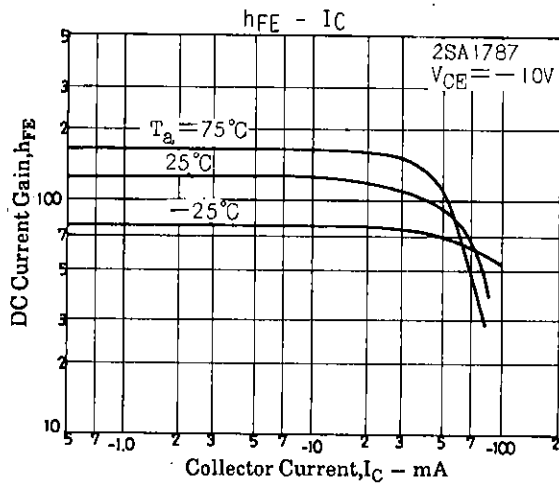
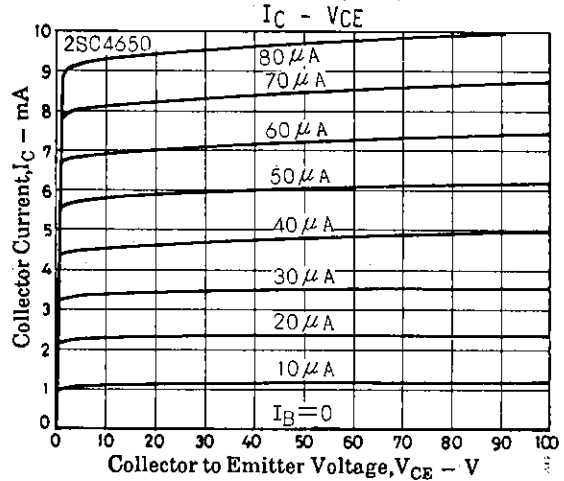
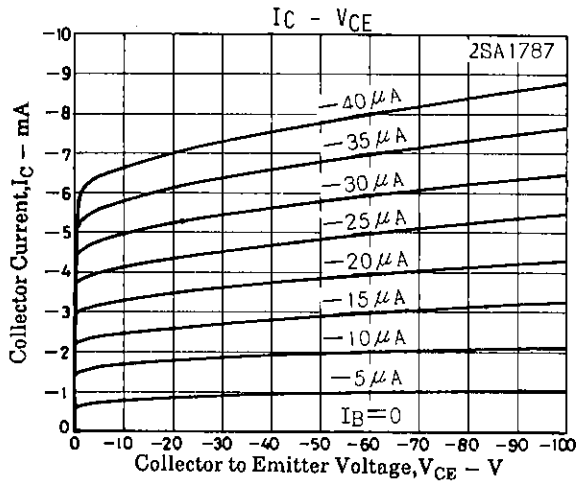
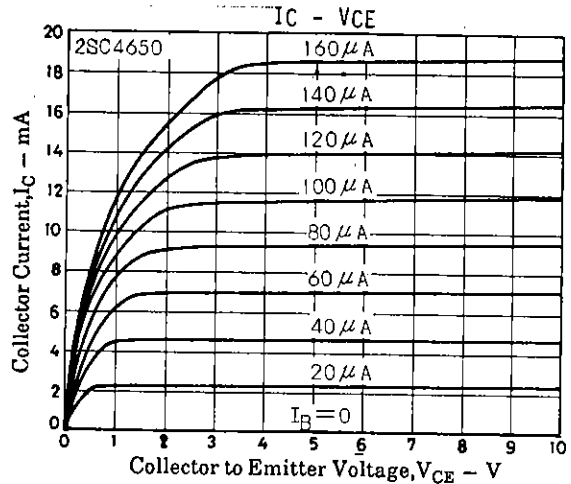
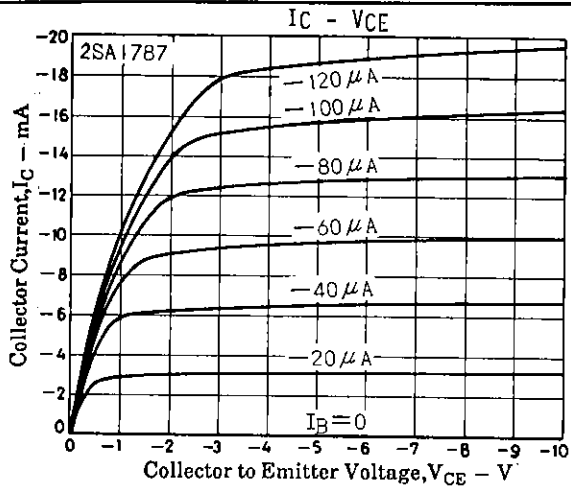
*: The 2SA1787/2SC4650 are classified by 10mA h_{FE} as follows:

60 D 120	100 E 200	160 F 320
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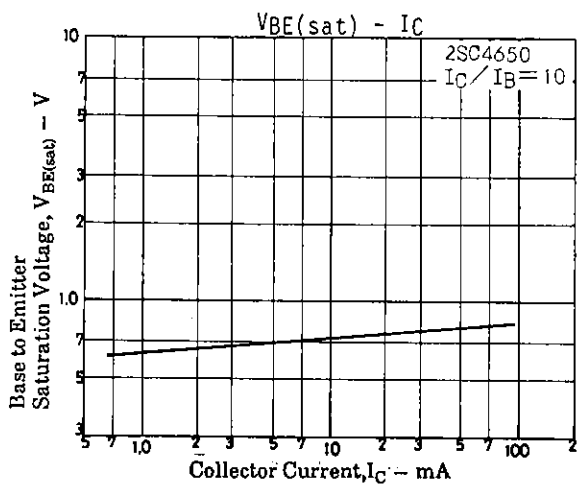
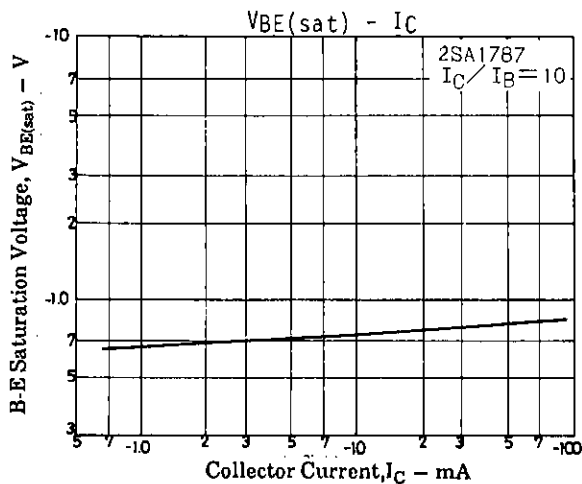
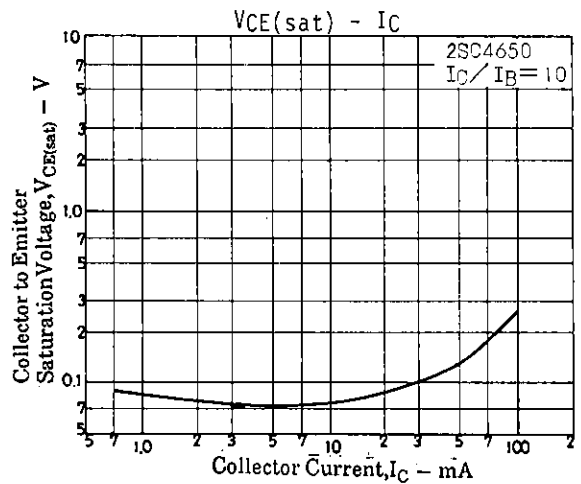
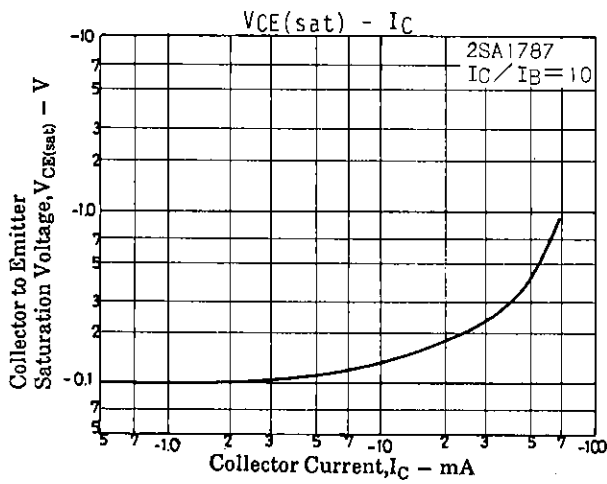
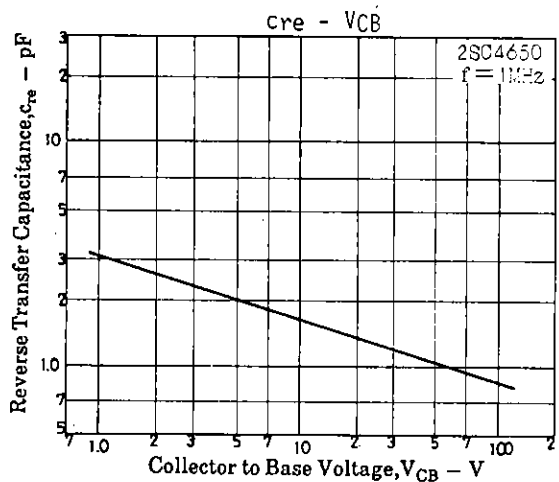
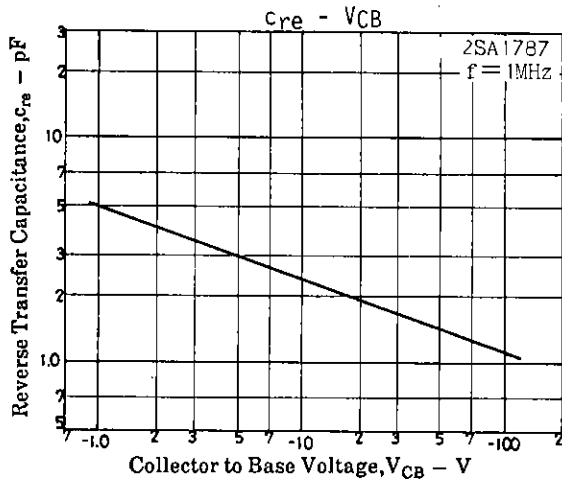
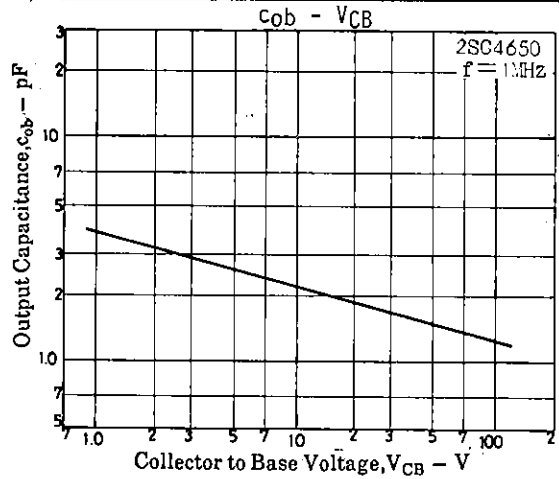
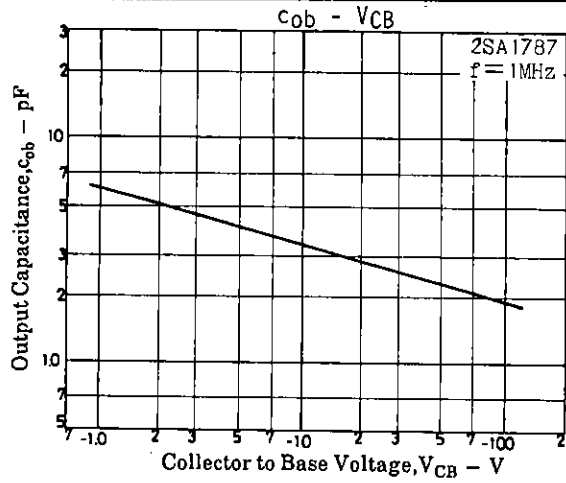
Package Dimensions 2064
(unit: mm)



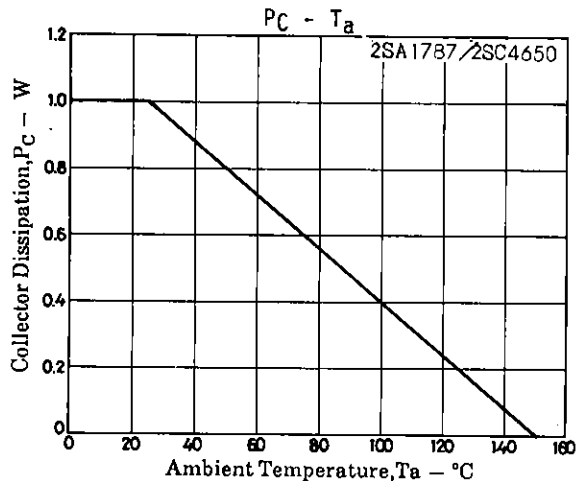
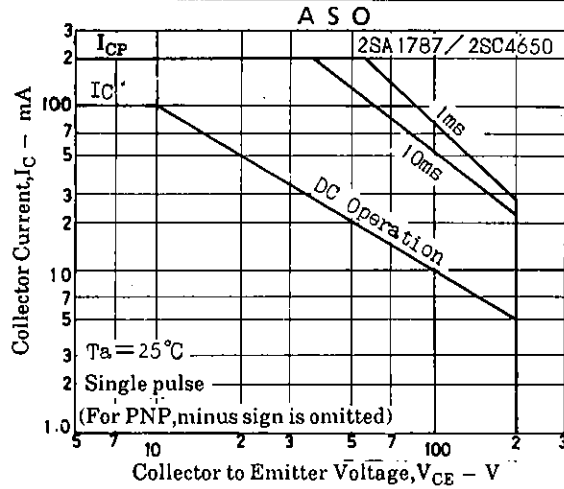
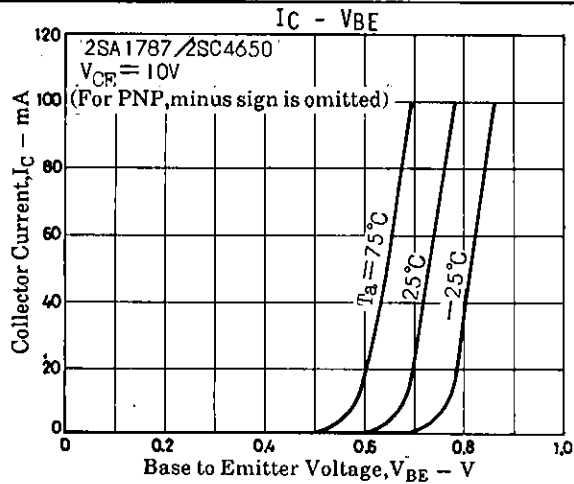
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