

SANYO	No.4692	2SC4660
	NPN Epitaxial Planar Silicon Transistor High-Definition CRT Display Video Output Driver Applications	

Features

- High f_T ($f_T = 2.2\text{GHz typ.}$)
- High current ($I_C = 300\text{mA}$).
- Adoption of FBET process.

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

			unit
Collector-to-Base Voltage	V_{CB0}	30	V
Collector-to-Emitter Voltage	V_{CE0}	20	V
Emitter-to-Base Voltage	V_{EB0}	3	V
Collector Current	I_C	300	mA
Collector Current (Pulse)	I_{CP}	600	mA
Collector Dissipation	P_C	1.3	W
		5	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

$T_c = 25^\circ\text{C}$

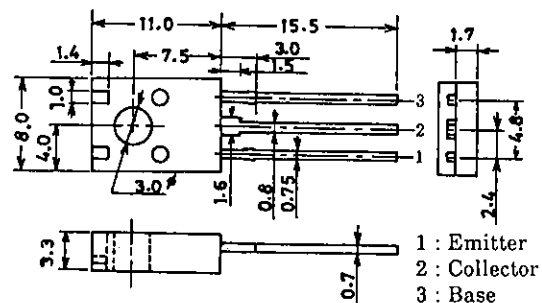
Electrical Characteristics at $T_a = 25^\circ\text{C}$

			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 20\text{V}, I_E = 0$			0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 2\text{V}, I_C = 0$			5.0	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = 5\text{V}, I_C = 50\text{mA}$	40		200	
	$h_{FE(2)}$	$V_{CE} = 5\text{V}, I_C = 300\text{mA}$	20			
Gain-Bandwidth Product	f_T	$V_{CE} = 5\text{V}, I_C = 50\text{mA}$		2.2		GHz
Output Capacitance	C_{ob}	$V_{CB} = 10\text{V}, f = 1\text{MHz}$		3.9		pF
Reverse Transfer Capacitance	C_{re}	$V_{CB} = 10\text{V}, f = 1\text{MHz}$		3.2		pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = 100\text{mA}, I_B = 10\text{mA}$	0.2	0.6		V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = 100\text{mA}, I_B = 10\text{mA}$	0.9	1.2		V

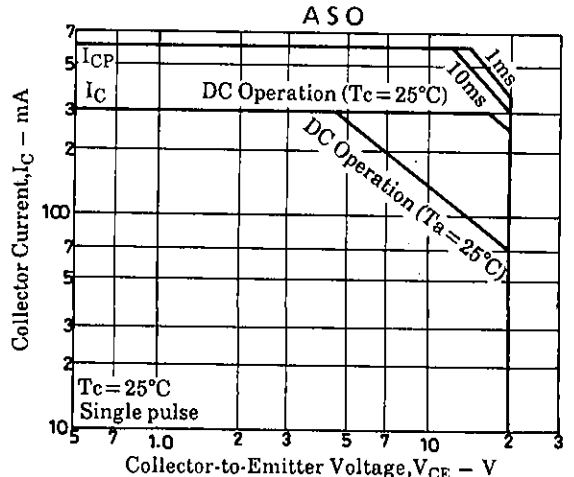
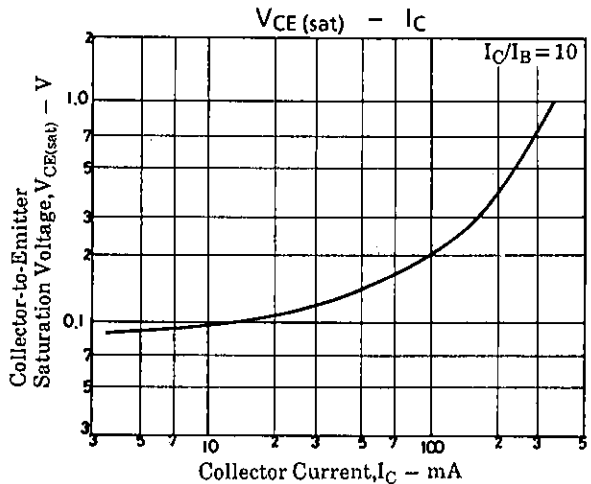
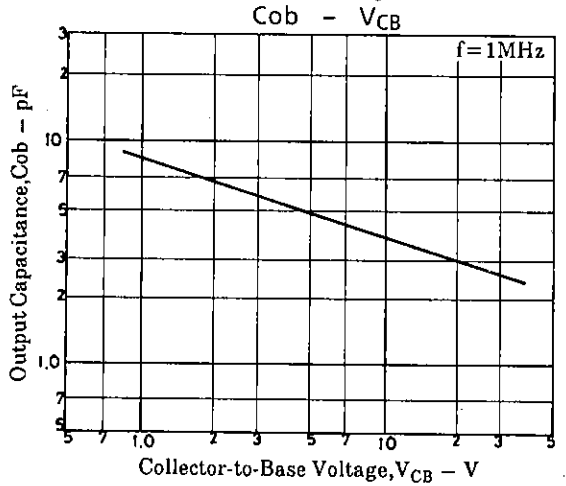
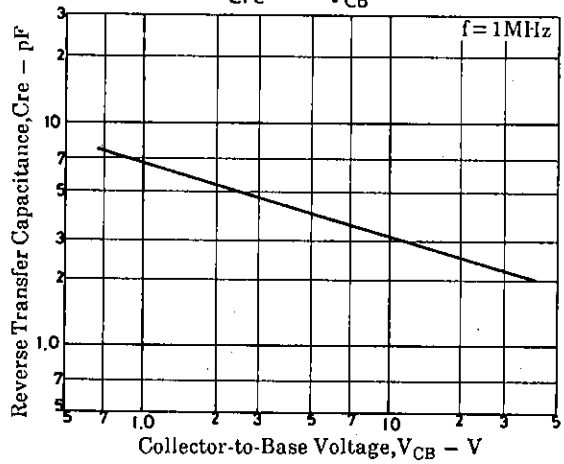
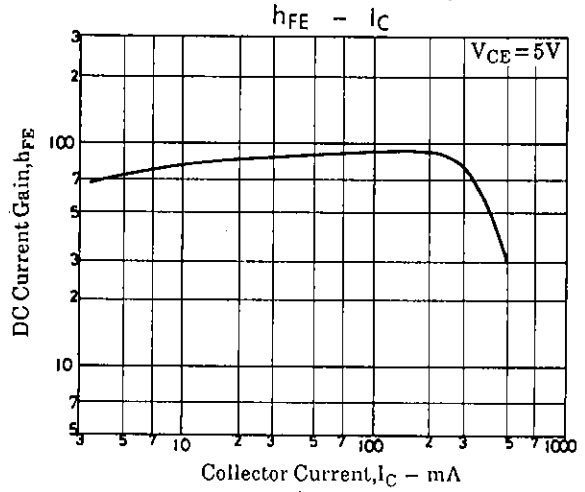
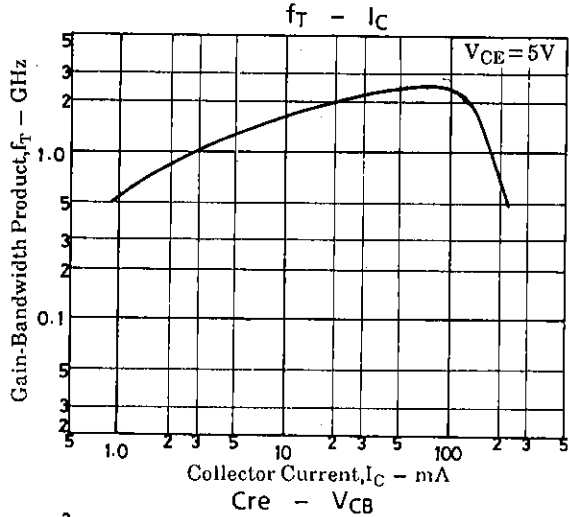
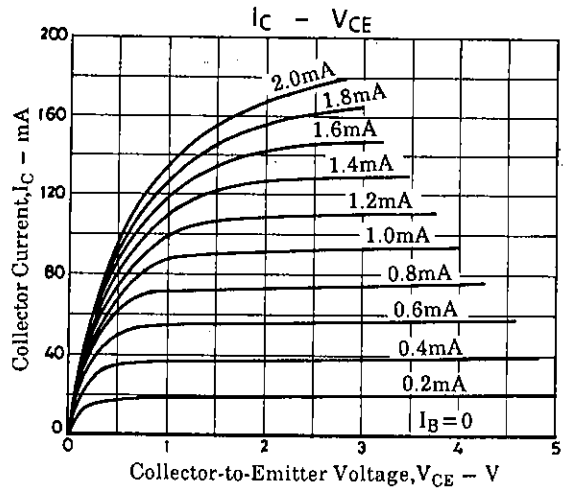
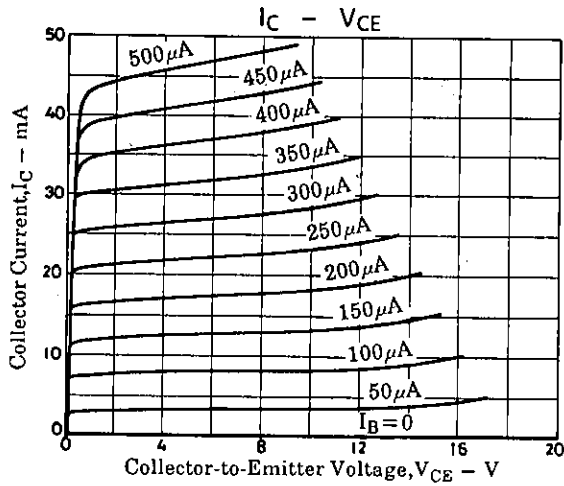
※ : The 2SC4660 are classified by 50mA h_{FE} as follows:

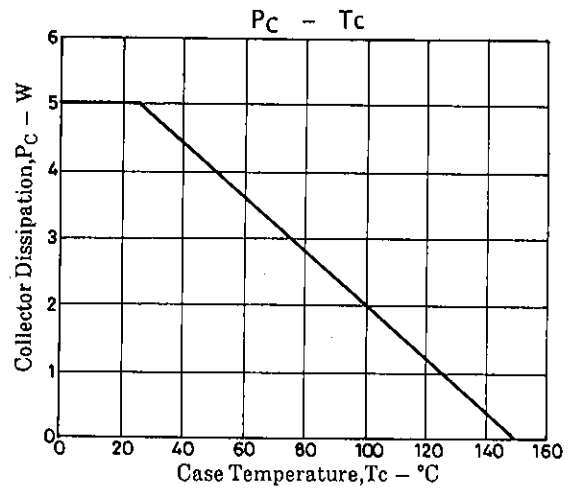
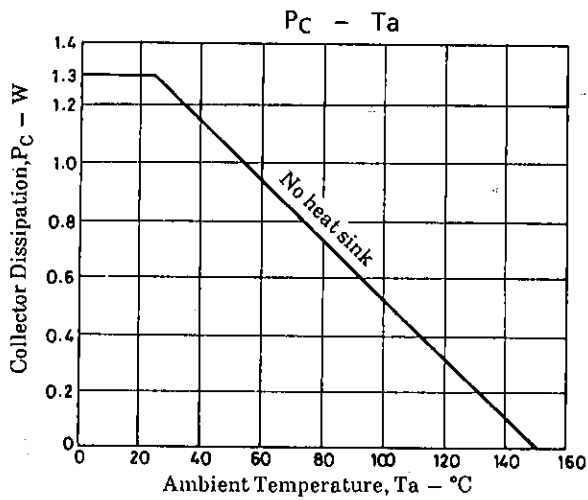
40 C 80	60 D 120	100 E 200
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Package Dimensions 2042B
(unit : mm)



SANYO: T0126ML





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