

<b>SANYO</b>	No.4692	<b>2SC4660</b>
	NPN Epitaxial Planar Silicon Transistor <b>High-Definition CRT Display Video</b> 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  $T_a = 25^\circ\text{C}$**

Collector-to-Base Voltage	$V_{CB0}$	30	V	unit
Collector-to-Emitter Voltage	$V_{CE0}$	20	V	
Emitter-to-Base Voltage	$V_{EBO}$	3	V	
Collector Current	$I_C$	300	mA	
Collector Current (Pulse)	$I_{CP}$	600	mA	
Collector Dissipation	$P_C$	1.3	W	
		5	W	$T_c = 25^\circ\text{C}$
Junction Temperature	$T_j$	150	$^\circ\text{C}$	
Storage Temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$	

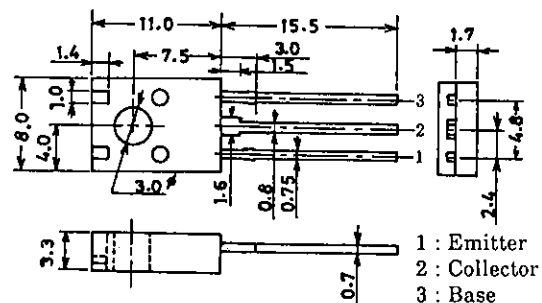
**Electrical Characteristics at  $T_a = 25^\circ\text{C}$**

		min	typ	max	unit
Collector Cutoff Current	$I_{CBO}$ $V_{CB} = 20\text{V}, I_E = 0$			0.1	$\mu\text{A}$
Emitter Cutoff Current	$I_{EBO}$ $V_{EB} = 2\text{V}, I_C = 0$			5.0	$\mu\text{A}$
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

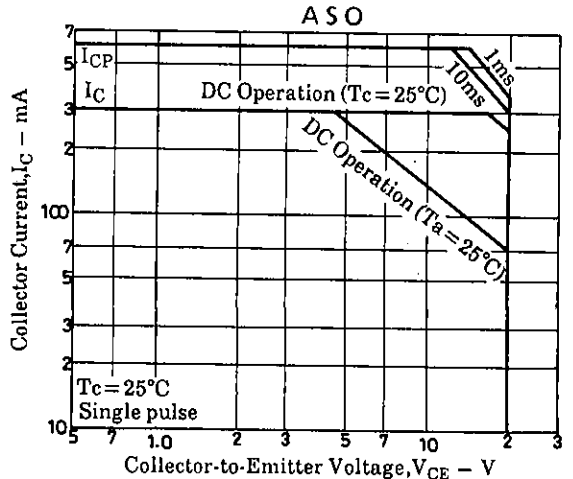
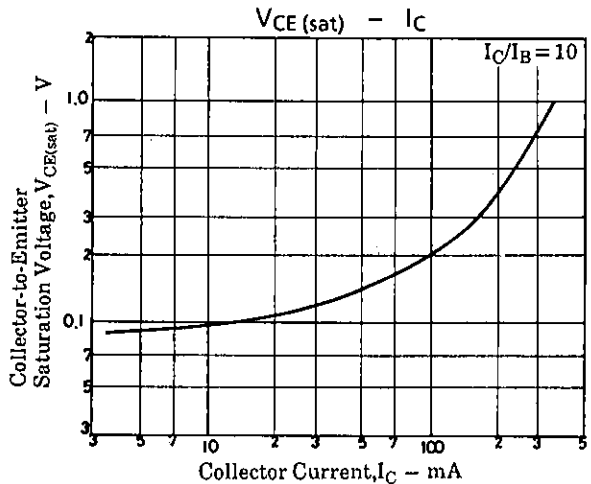
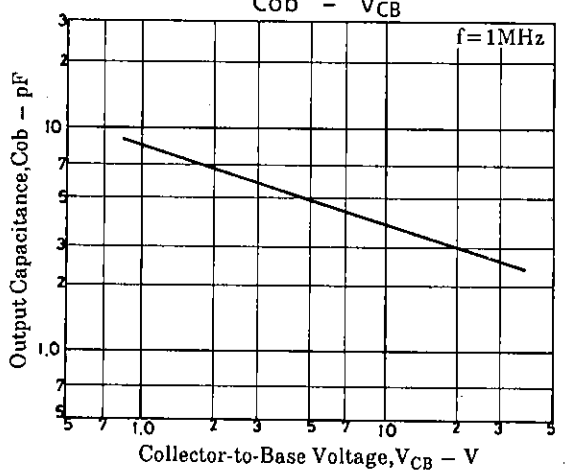
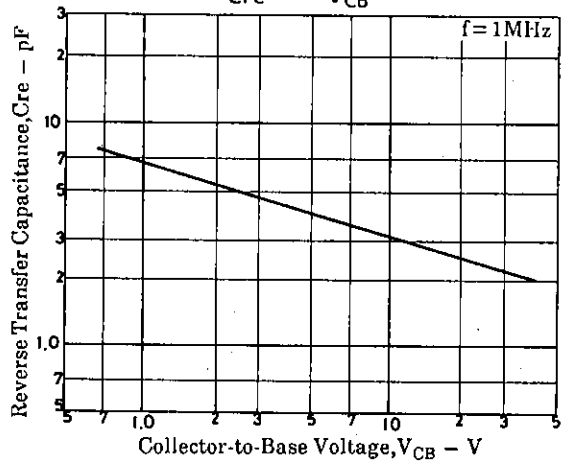
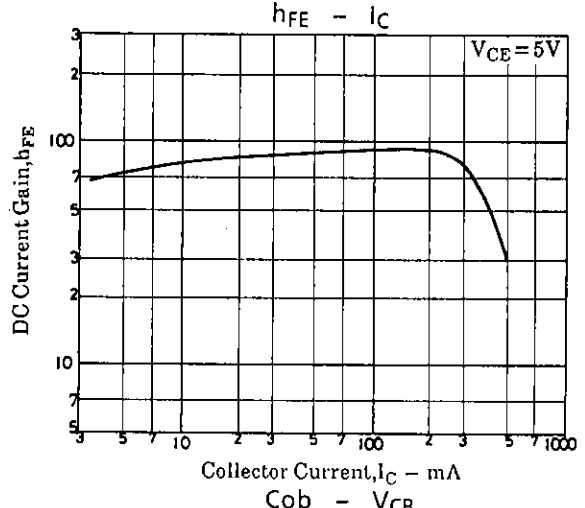
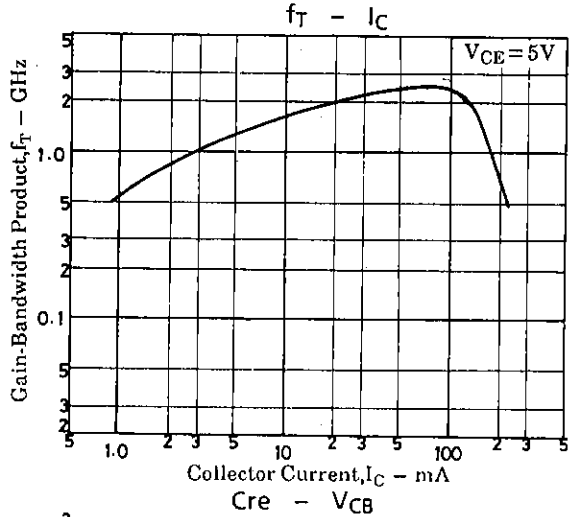
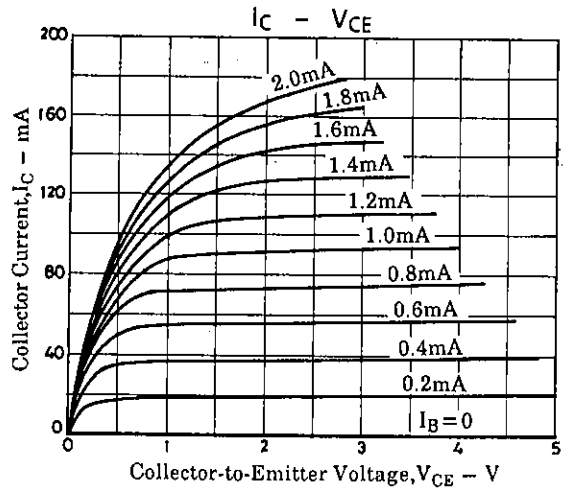
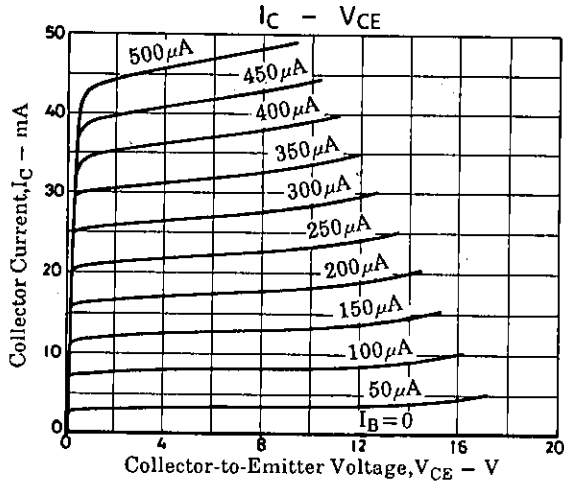
※ : The 2SC4660 are classified by 50mA  $h_{FE}$  as follows:

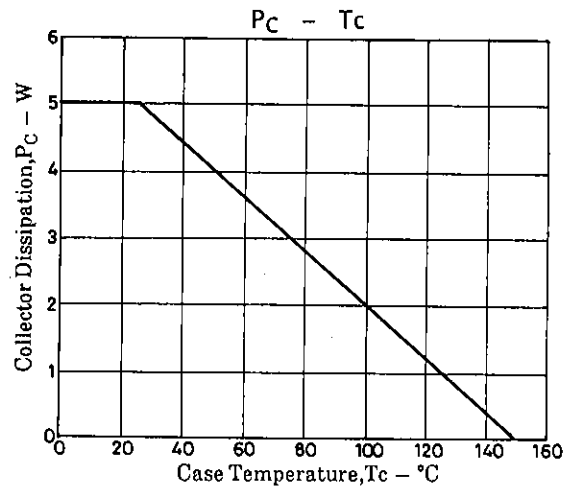
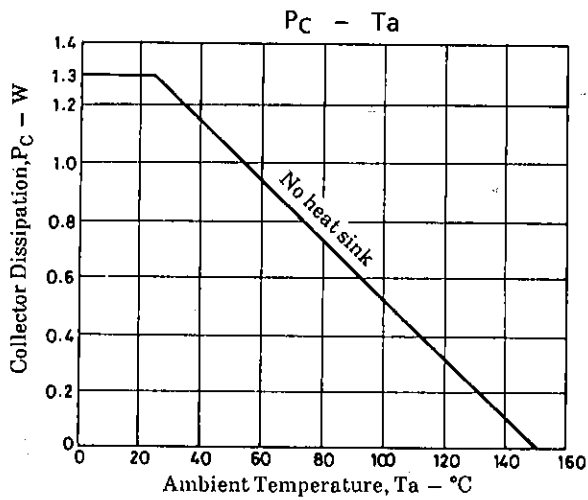
40 C 80	60 D 120	100 E 200
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**Package Dimensions 2042B**  
(unit : mm)



SANYO: T0126ML





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