Ordering number: EN4692

NPN Epitaxial Planar Silicon Transistor



2SC4660

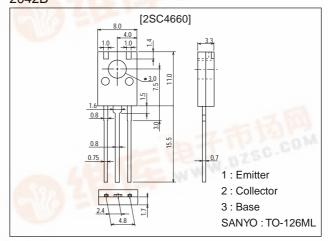
High-Definition CRT Display Video Output Driver Applications

Features

- · High f_T (f_T =2.2GHz typ)
- · Large current (I_C =300mA)
- · Adoption of FBET process.

Package Dimensions

unit:mm 2042B



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		30	V
Collector-to-Emitter Voltage	VCEO		20	V
Emitter-to-Base Voltage	V _{EBO}		3	V
Collector Current	IC		300	mA
Collector Current (Pulse)	I _{CP}	1 A.D. (1800)	600	mA
Collector Dissipation	PC	A STATE OF W	1.3	W
		Tc=25°C	5	W
Junction Temperature	Tj	THE STATE OF	150	°C
Storage Temperature	Tstg	10 -14	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Collector Cutoff Current	I _{CBO}	V _{CB} =20V, I _E =0			0.1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =2V, I _C =0			5.0	μΑ
DC Current Gain	h _{FE} 1	V _{CE} =5V, I _C =50mA	40		200	, O
	h _{FE} 2	V _{CE} =5V, I _C =300mA	20	M D		
Gain-Bandwidth Product	fT	V _{CE} =5V, I _C =50mA	AL W	2.2		GHz

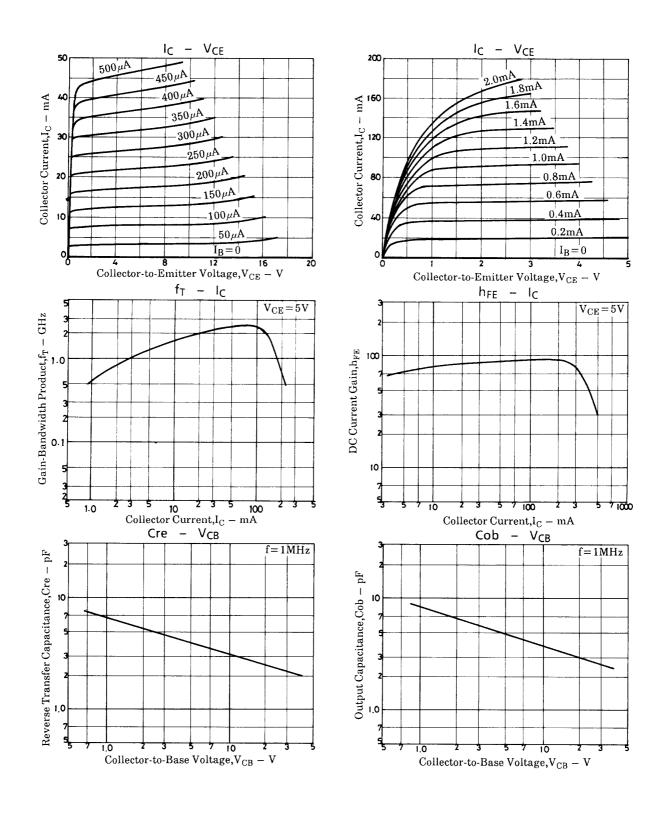
*: The 2SC4660 is classified by 50mA hFE as follows:

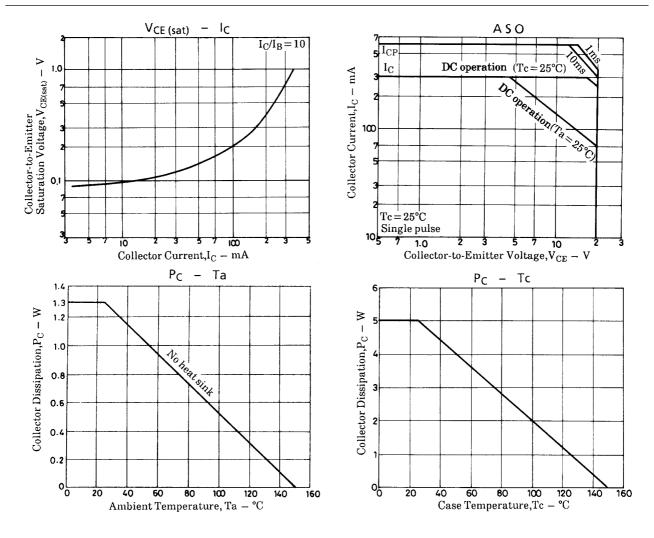
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz		3.9		pF
Reverse Transfer Capacitance	C _{re}	V _{CB} =10V, f=1MHz		3.2		pF
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =100mA, I _B =10mA		0.2	0.6	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =100mA, I _B =10mA		0.9	1.2	V





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