

2SC3685

Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Applications

· Ultrahigh-definition color display horizontal deflection output.

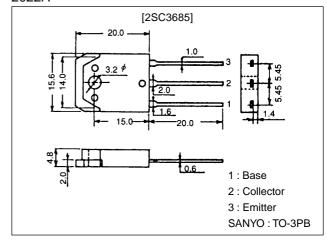
Features

- · Fast speed (t_f typ=100ns).
- · High breakdown voltage (V_{CBO}=1500V).
- · High reliability (adoption of HVP process).
- · Adoption of MBIT process.

Package Dimensions

unit:mm

2022A



Specifications

Absolute Maximum Ratings at Ta = 25°C

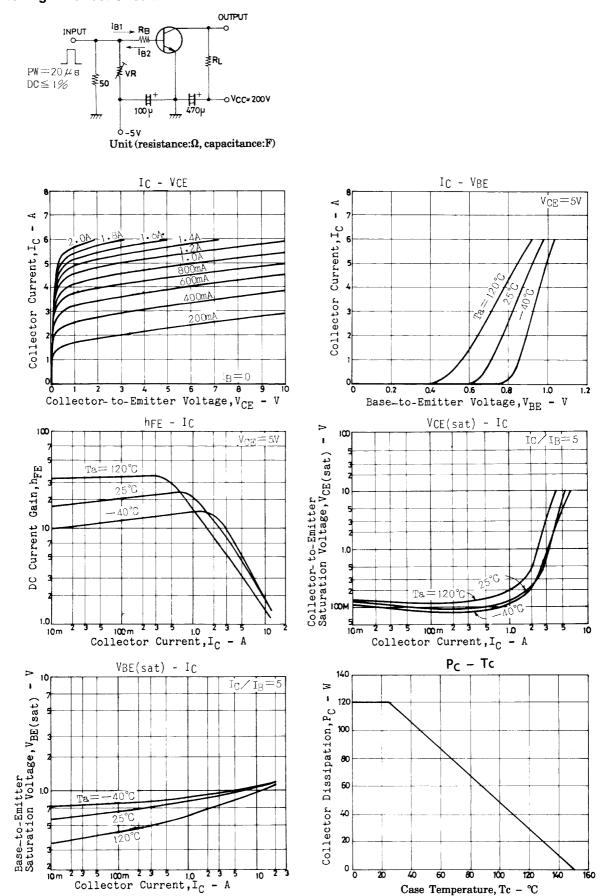
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1500	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		6	V
Collector Current	Ic		6	Α
Collector Current (Pulse)	I _{CP}		16	Α
Collector Dissipation	PC	Tc=25°C	125	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

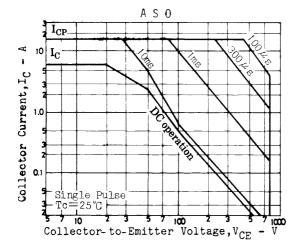
Electrical Characteristics at Ta = 25°C

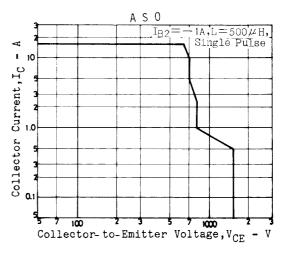
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Collector Cutoff Current	ICES	V _{CE} =1500V, R _{BE} =0			1.0	mA
Collector-to-Emitter Sastain Voltage	VCEO(sus)	I _C =100mA, I _B =0	800			V
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0			1.0	mA
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =4A, I _B =1A			5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =4A, I _B =1A			1.5	V
DC Current Gain	h _{FE}	V _{CE} =5V, I _C =1.0A	8			
Storage Time	t _{stg}	I _C =4A, I _{B1} =0.8A, I _{B2} =-1.6A			3.0	μs
Fall Time	t _f	I _C =4A, I _{B1} =0.8A, I _{B2} =-1.6A		0.1	0.2	μs

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Switching Time Test Circuit







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