

**2SC3685**

Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Applications

- Ultrahigh-definition color display horizontal deflection output.

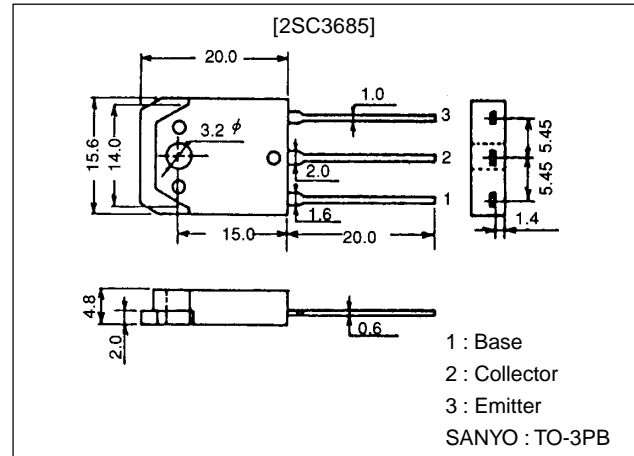
Features

- 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 $T_a = 25^\circ C$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CBO}		1500	V
Collector-to-Emitter Voltage	V_{CEO}		800	V
Emitter-to-Base Voltage	V_{EBO}		6	V
Collector Current	I_C		6	A
Collector Current (Pulse)	I_{CP}		16	A
Collector Dissipation	P_C	$T_c=25^\circ C$	125	W
Junction Temperature	T_J		150	$^\circ C$
Storage Temperature	T_{stg}		-55 to +150	$^\circ C$

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CES}	$V_{CE}=1500V, R_{BE}=0$			1.0	mA
Collector-to-Emitter Sustain Voltage	$V_{CEO(sus)}$	$I_C=100mA, I_B=0$	800			V
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4V, I_C=0$			1.0	mA
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=4A, I_B=1A$			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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