

**2SC3637**

## Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

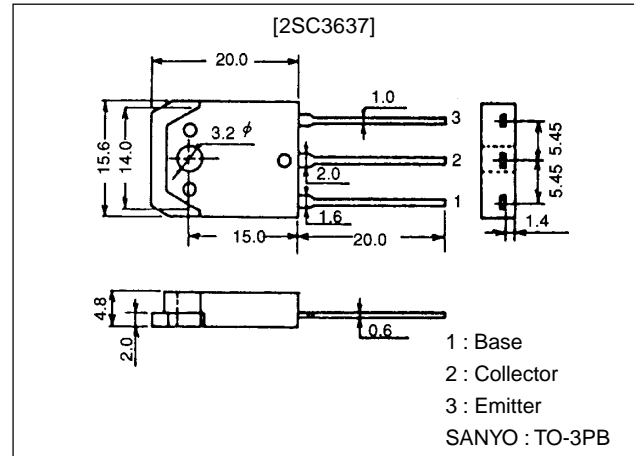
### Features

- High reliability (Adoption of HVP process).
- Fast speed.
- High breakdown voltage.
- 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	$V_{CBO}$		900	V
Collector-to-Emitter Voltage	$V_{CEO}$		500	V
Emitter-to-Base Voltage	$V_{EBO}$		7	V
Collector Current	$I_C$		10	A
Collector Current (Pulse)	$I_{CP}$		20	A
Collector Dissipation	$P_C$	$T_c=25^\circ\text{C}$	90	W
Junction Temperature	$T_J$		150	°C
Storage Temperature	$T_{stg}$		-55 to +150	°C

#### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=500\text{V}, I_E=0$			10	$\mu\text{A}$
	$I_{CES}$	$V_{CE}=900\text{V}, R_{BE}=0$			0.5	mA
Collector-to-Emitter Sustain Voltage	$V_{CEO(sus)}$	$I_C=100\text{mA}, I_B=0$	500			V
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=5\text{V}, I_C=0$			1	mA
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=5\text{A}, I_B=1\text{A}$			2	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=5\text{A}, I_B=1\text{A}$			1.5	V
DC Current Gain	$h_{FE}$	$V_{CE}=5\text{V}, I_C=1\text{A}$	8			
Storage Time	$t_{stg}$	$I_C=5\text{A}, I_{B1}=1\text{A}, I_{B2}=-2\text{A}$			3.0	$\mu\text{s}$
Fall Time	$t_f$	$I_C=5\text{A}, I_{B1}=1\text{A}, I_{B2}=-2\text{A}$		0.1	0.2	$\mu\text{s}$

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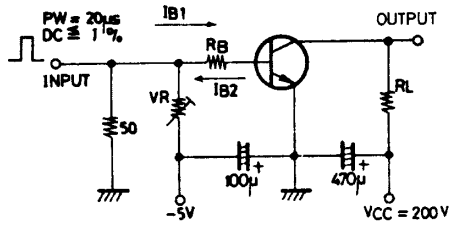
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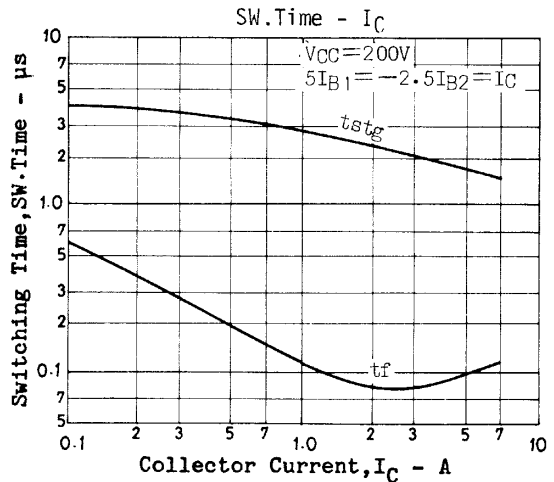
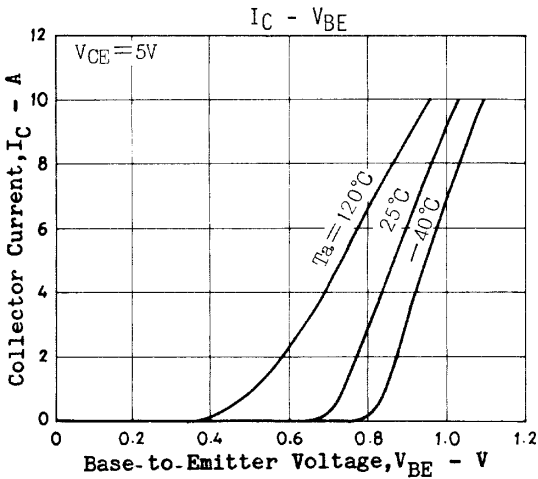
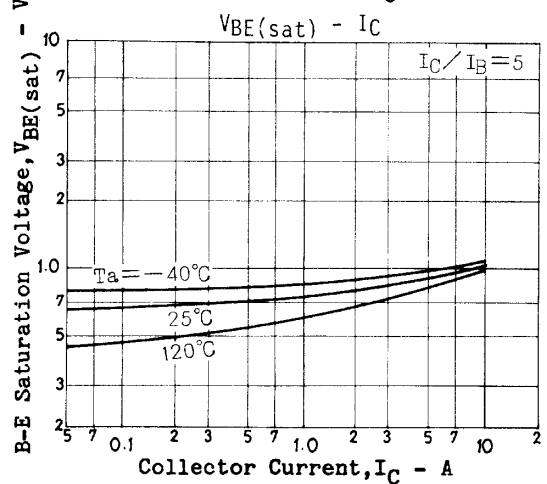
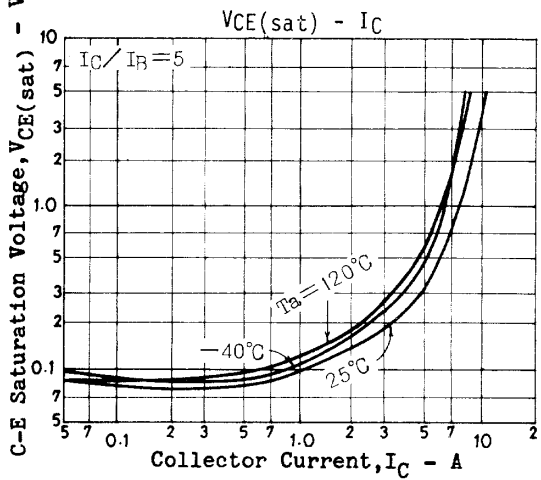
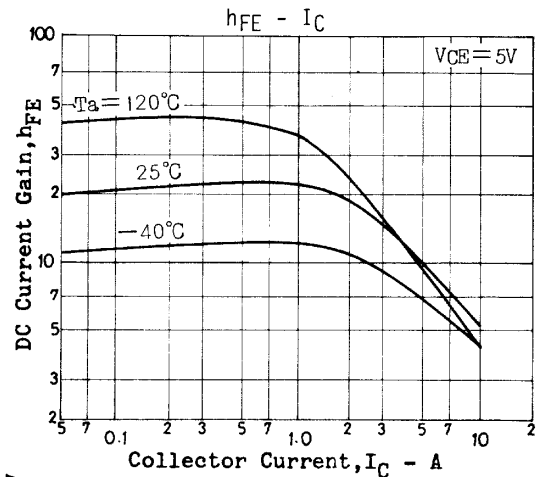
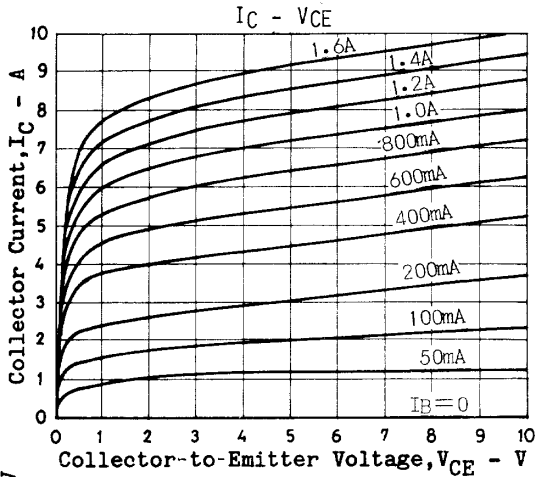
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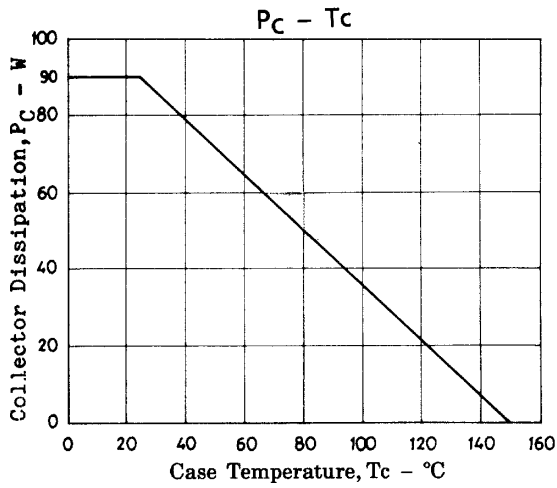
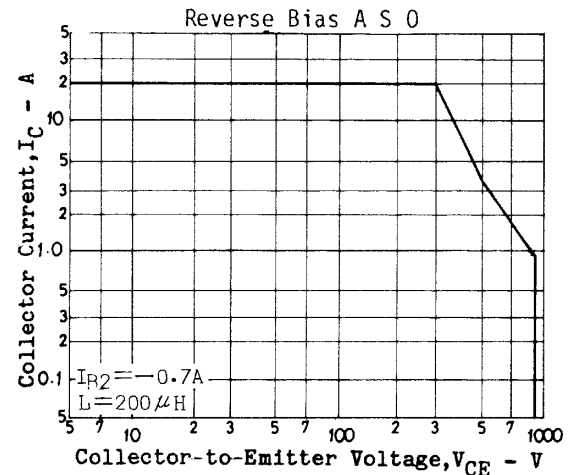
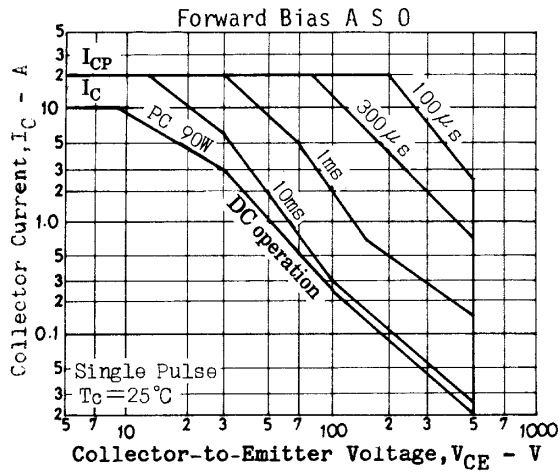
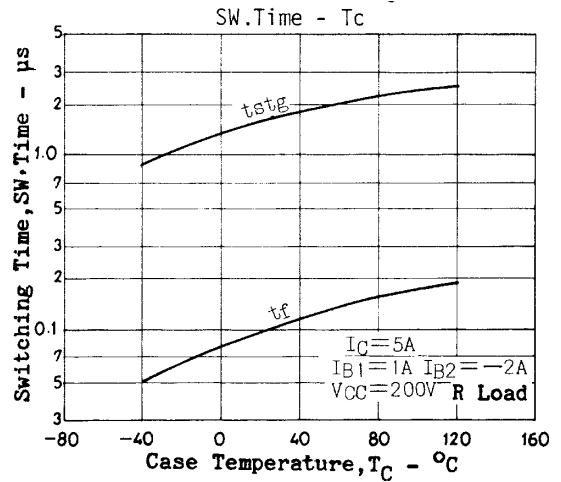
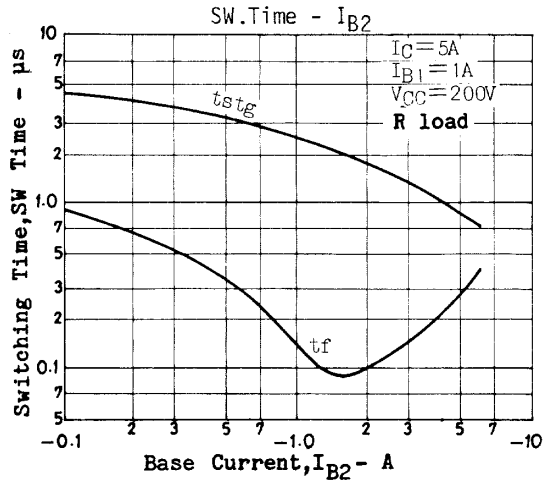
Switching Time Test Circuit



Unit (resistance:Ω, capacitance:F)



# 2SC3637



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