

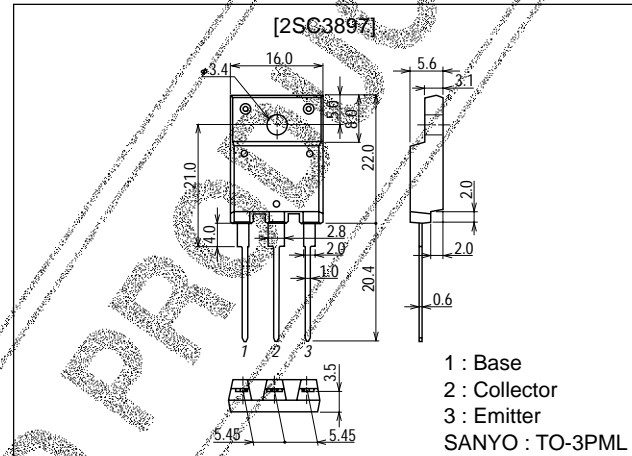
SANYO**2SC3897****Ultrahigh-Definition CRT Display
Horizontal Deflection Output Applications****Features**

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

Package Dimensions

unit:mm

2039D

**Specifications****Absolute Maximum Ratings** at $T_a = 25^\circ\text{C}$

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		10	A
Collector Current (Pulse)	I_{CP}		25	A
Collector Dissipation	P_C	$T_c=25^\circ\text{C}$	3.0	W
Junction Temperature	T_J		70	W
Storage Temperature	T_{stg}		150	$^\circ\text{C}$
			-55 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB}=800\text{V}, I_E=0$			10	μA
	I_{CES}	$V_{CE}=1500\text{V}, R_{BE}=0$			1.0	mA
Collector-to-Emitter Sustain Voltage	$V_{CEO(sus)}$	$I_C=100\text{mA}, I_B=0$	800			V
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4\text{V}, I_C=0$			1.0	mA
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=8\text{A}, I_B=2\text{A}$			5	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=8\text{A}, I_B=2\text{A}$			1.5	V

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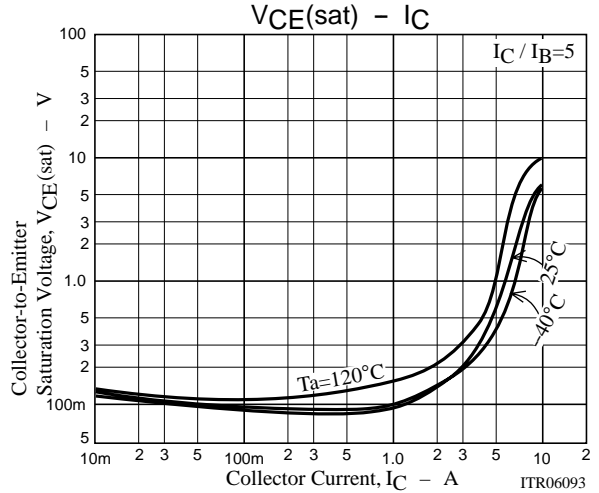
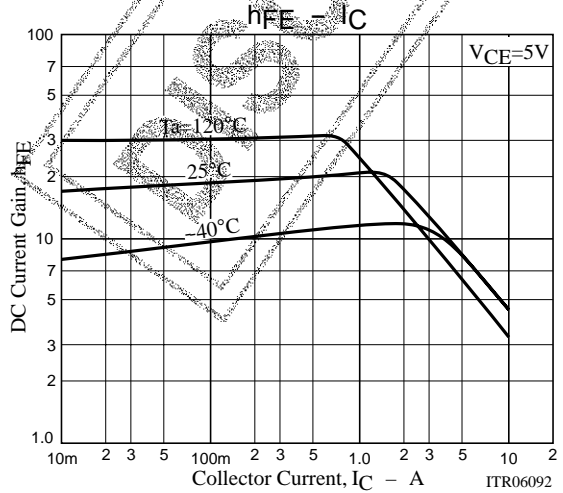
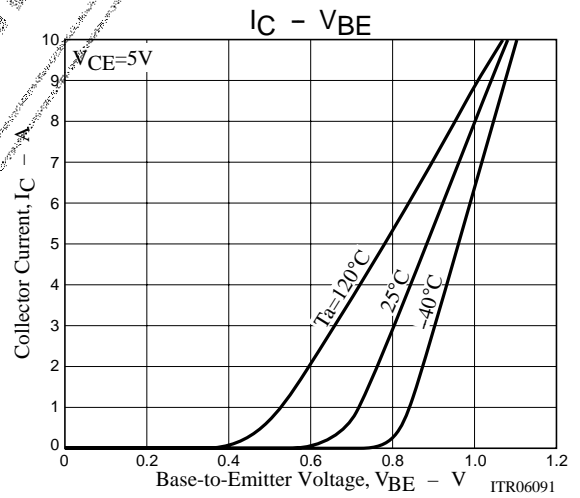
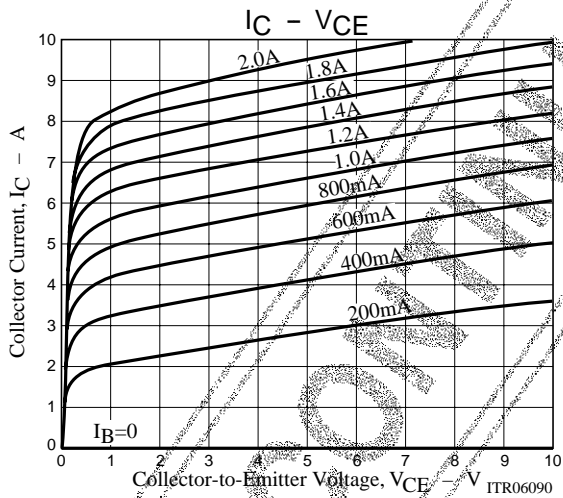
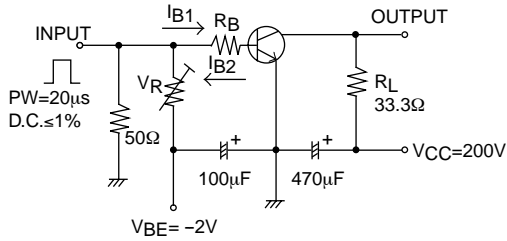
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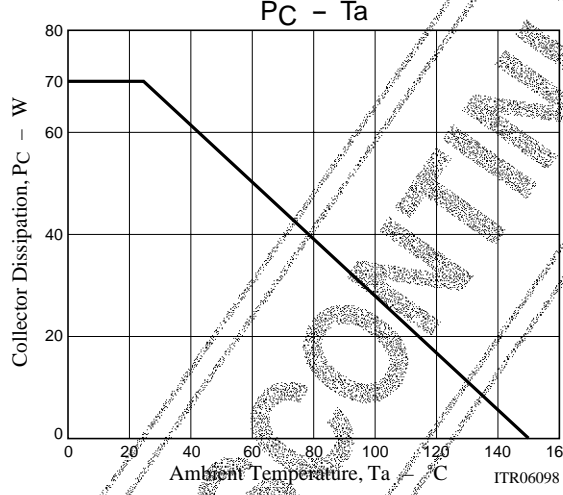
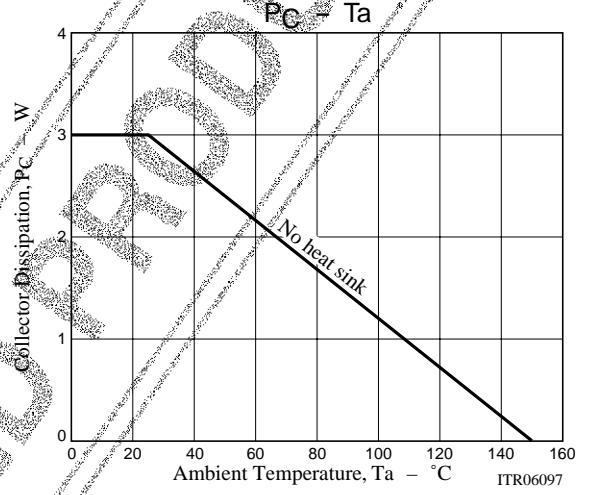
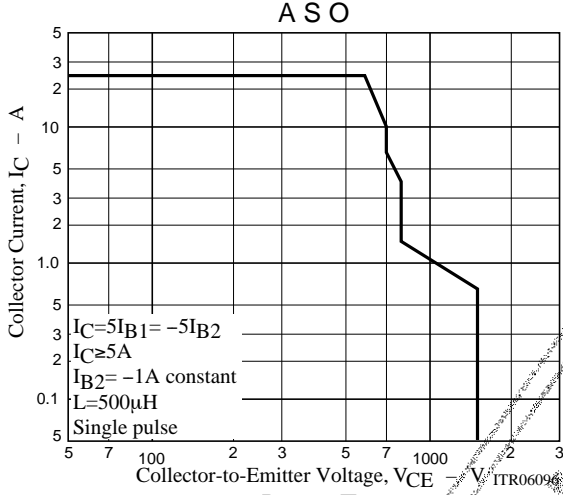
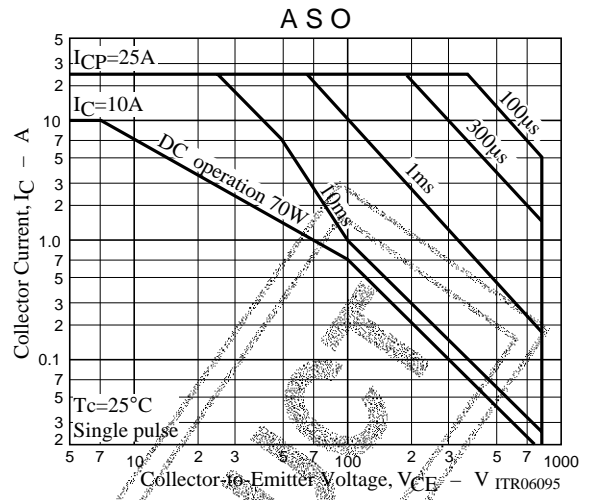
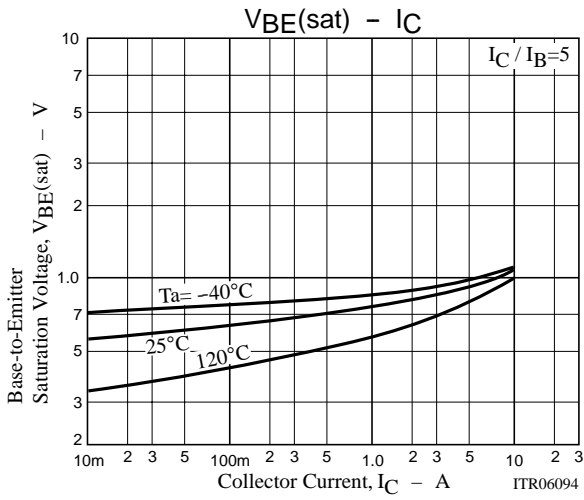
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
DC Current Gain	h_{FE1}	$V_{CE}=5V, I_C=1A$	8			
	h_{FE2}	$V_{CE}=5V, I_C=8A$	4		8	
Storage Time	t_{stg}	$I_C=6A, I_{B1}=1.2A, I_{B2}=-2.4A$			3.0	μs
Fall Time	t_f	$I_C=6A, I_{B1}=1.2A, I_{B2}=-2.4A$		0.1	0.2	μs

Switching Time Test Circuit



2SC3897



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UNVALUED PRODUCT

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