

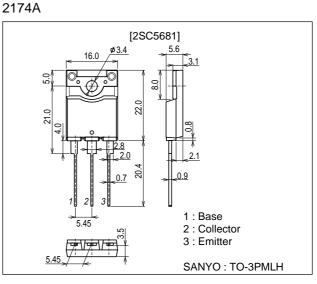
# Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

## Features

- High speed.
- High breakdown voltage(VCBO=1500V).
- High reliability(Adoption of HVP process).
- · Adoption of MBIT process.

# **Package Dimensions**

unit : mm



# **Specifications**

### Absolute Maximum Ratings at Ta= $25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1500	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		15	А
Collector Current (Pulse)	ICP		35	А
Collector Dissipation	PC		3.0	W
		Tc=25°C	85	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	ICBO	V <sub>CB</sub> =800V, I <sub>E</sub> =0			10	μΑ
Collector Cutoff Current	ICES	V <sub>CE</sub> =1500V, R <sub>BE</sub> =0			1.0	mA
Collector Sustain Voltage	VCEO(sus)	IC=100mA, IB=0	800			V
Emitter Cutoff Current	IEBO	V <sub>EB</sub> =4V, I <sub>C</sub> =0			1.0	mA

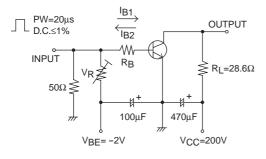
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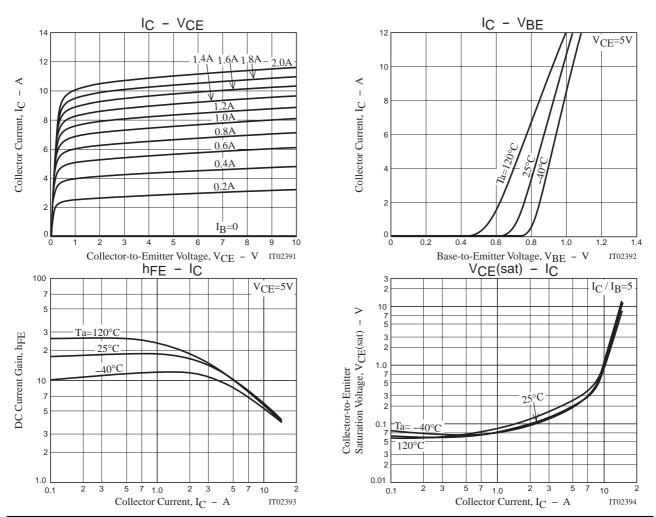
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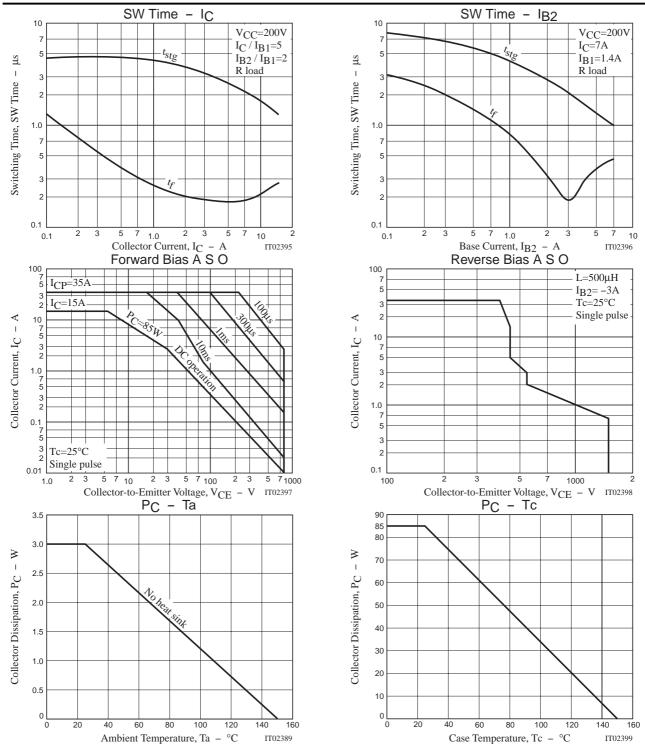
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
DC Current Gain	hFE1	V <sub>CE</sub> =5V, I <sub>C</sub> =1A	15			
	hFE2	V <sub>CE</sub> =5V, I <sub>C</sub> =12A	4		7	
Collectoe-to-Emitter Saturation Voltage	VCE(sat)	IC=10.8A, IB=2.7A			3	V
Base-to-Emitter Saturation Voltage	V <sub>BE</sub> (sat)	IC=10.8A, IB=2.7A			1.5	V
Storage Time	tstg	IC=7A, IB1=1.4A, IB2=-2.8A			3.0	μs
Fall Time	tf	IC=7A, IB1=1.4A, IB2=-2.8A			0.2	μs

## **Switching Time Test Circuit**







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