

2SC5900

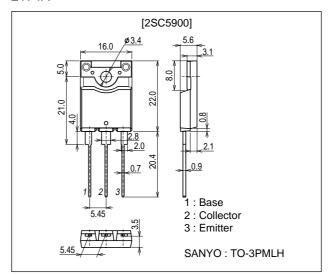
# CRT Display Horizontal Deflection Output Applications

## **Features**

- · High speed.
- High breakdown voltage(V<sub>CBO</sub>=1700V).
- High reliability(Adoption of HVP process).
- · Adoption of MBIT process.
- · Built in damper diode.

## **Package Dimensions**

unit : mm 2174A



# **Specifications**

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1700	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		8	Α
Collector Current (Pulse)	ICP		16	Α
Collector Dissipation	PC		3.0	W
	1	Tc=25°C	80	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	ICBO	V <sub>CB</sub> =800V, I <sub>E</sub> =0			10	μΑ
	ICES	V <sub>CE</sub> =1700V, 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	40		130	mA

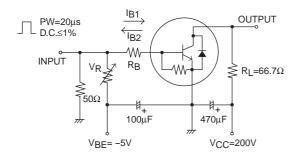
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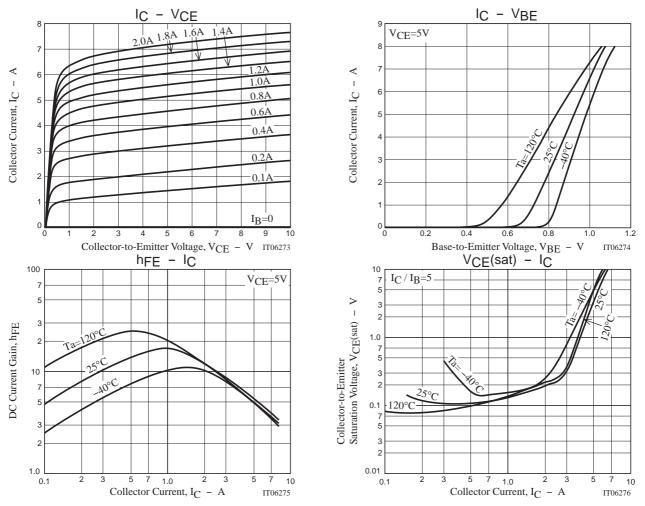
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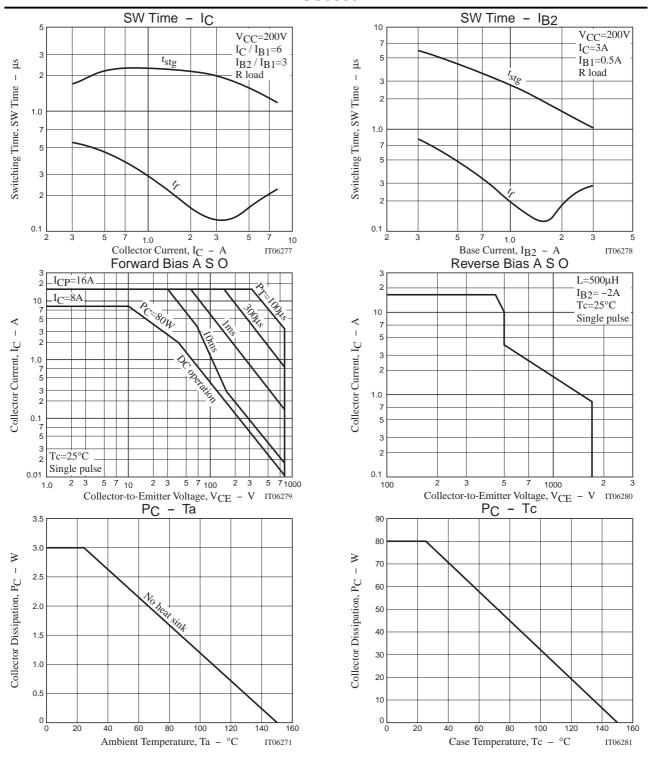
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
DC Current Gain	hFE1	V <sub>CE</sub> =5V, I <sub>C</sub> =1A	10			
	hFE2	V <sub>CE</sub> =5V, I <sub>C</sub> =4.5A	4		7	
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=4A, IB=1A			3	V
Base-to-Emitter Saturation Voltage	V <sub>BE</sub> (sat)	I <sub>C</sub> =4A, I <sub>B</sub> =1A			1.5	٧
Storage Time	t <sub>stg</sub>	I <sub>C</sub> =3A, I <sub>B1</sub> =0.5A, I <sub>B2</sub> =-1.5A			3.0	μs
Fall Time	tf	IC=3A, IB1=0.5A, IB2=-1.5A			0.2	μs
Forward Voltage	٧F	I <sub>EC</sub> =6.5A			2	V

# **Switching Time Test Circuit**







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