

# 2SD1882

# Color TV Horizontal Deflection Output Applications

## **Applications**

- · Color TV horizontal diflection output.
- · Color display horizontal deflection output.

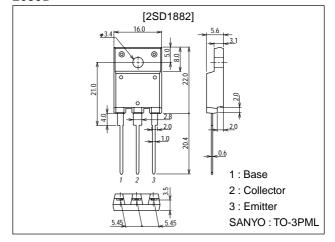
#### **Features**

- · High speed (t<sub>f</sub>=100ns).
- · High breakdown voltage (V<sub>CBO</sub>=1500V).
- · High reliability (adoption of HVP process).

# **Package Dimensions**

unit:mm

2039D



## **Specifications**

#### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V <sub>CBO</sub>		1500	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		6	V
Collector Current	I <sub>C</sub>		3	Α
Collector Current (Pulse)	I <sub>CP</sub>		12	Α
Collector Dissipation	PC		50	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

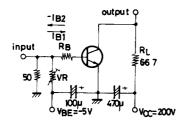
#### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	ICES	V <sub>CE</sub> =1500V			1.0	mA
	ICBO	V <sub>CB</sub> =800V			10	μΑ
Collector-to-Emitter Sustain Voltage	VCEO(sus)	I <sub>C</sub> =100mA, I <sub>B</sub> =0	800			V
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =4V			1.0	mA
Collector-to-Emitter Saturation Voltage	VCE(sat)	I <sub>C</sub> =2A, I <sub>B</sub> =0.6A			5	V
Base-to-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =2A, I <sub>B</sub> =0.6A			1.5	V
DC Current Gain	h <sub>FE</sub> 1	V <sub>CE</sub> =5V, I <sub>C</sub> =0.5A	8			
	h <sub>FE</sub> 2	V <sub>CE</sub> =5V, I <sub>C</sub> =2A	3		6	
Fall Time	t <sub>f</sub>	I <sub>C</sub> =3A, I <sub>B1</sub> =0.8A, I <sub>B2</sub> =-1.6A		0.1	0.3	μs

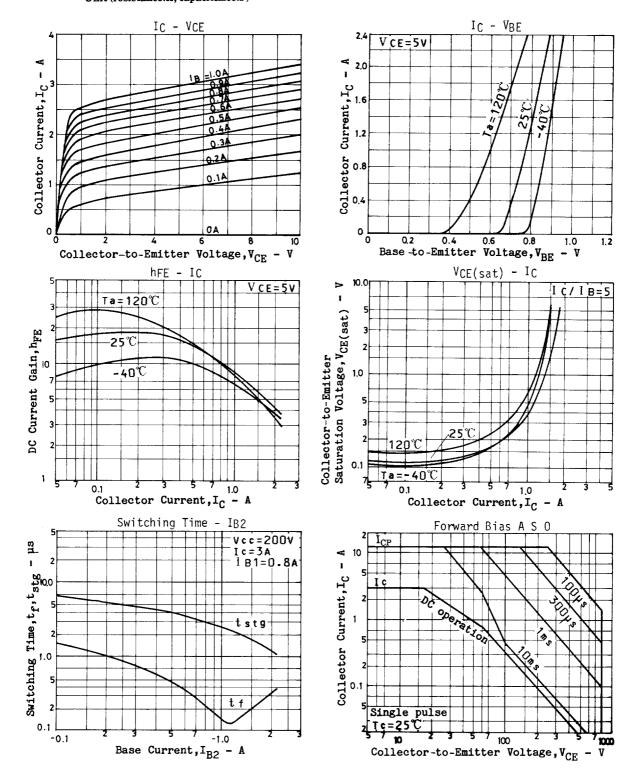
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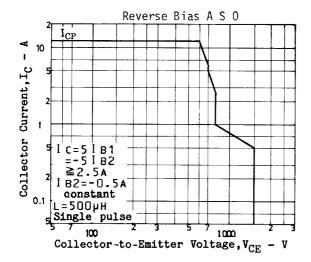
#### **Switching Time Test Circuit**

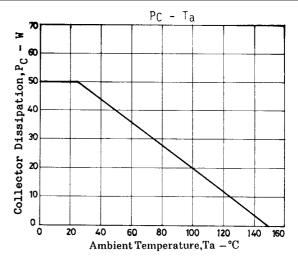
PW=20µs,duty≦1%



Unit (resistance: $\Omega$ , capacitance:F)







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