

2SD1885

Color TV Horizontal Deflection Output Applications

Applications

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

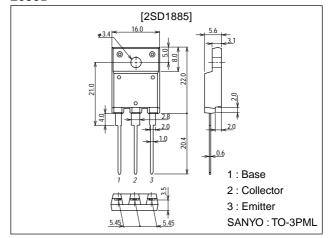
Features

- · High speed (t_f=100ns).
- · High breakdown voltage (V_{CBO}=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 _{CBO}		1500	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		6	V
Collector Current	IC		6	Α
Collector Current (Pulse)	I _{CP}		20	Α
Collector Dissipation	PC		3.0	W
		Tc=25°C	60	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

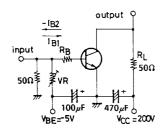
Electrical Characteristics at Ta = 25°C

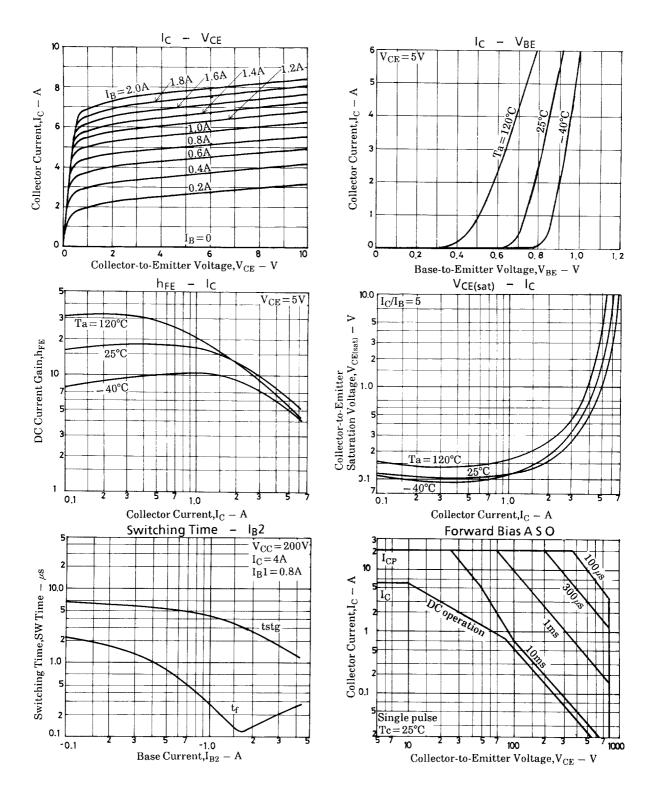
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Collector Cutoff Current	ICES	V _{CE} =1500V			1.0	mA
	ICBO	V _{CB} =800V, I _E =0			10	μΑ
Collector-to-Emitter Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0	800			V
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0			1.0	mA
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =5A, I _B =1.0A			5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =5A, I _B =1.0A			1.5	V
DC Current Gain	h _{FE} 1	V _{CE} =5V, I _C =1A	8			
	h _{FE} 2	V _{CE} =5V, I _C =5A	5		10	
Fall Time	t _f	I _C =4A, I _{B1} =0.8A, I _{B2} =-1.6A		0.1	0.3	μs

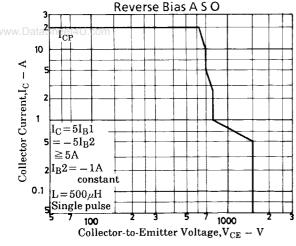
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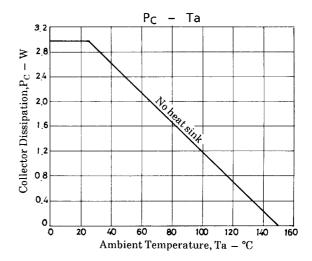
Switching Time Test Circuit

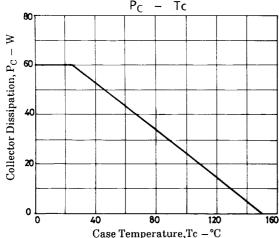
 $PW = 20 \mu s$, duty $\leq 1\%$











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