

2SD1880

SANYO: TO-3PML

Color TV Horizontal Deflection Output Applications

Applications

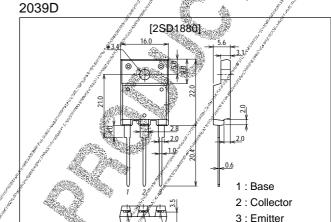
- · Color TV horizontal diflection output.
- · Color display horizontal deflection output.

Features

- · High speed (t_f=100ns).
- · High breakdown voltage (V_{CBO}=1500V).
- · High reliability (adoption of HVP process).
- · On-chip damper diode.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Collector-to-Base Voltage	VCBO	1500	V
Collector-to-Emitter Voltage	V.CEO //	800	V
Emitter-to-Base Voltage	₩ _E BO	6	V
Collector Current	//c	8	Α
Collector Current (Pulse)	I _{CP}	30	Α
Collector Dissipation	Pc	70	W
Junction Temperature		150	°C
Storage Temperature	// Estg	-55 to +150	°C

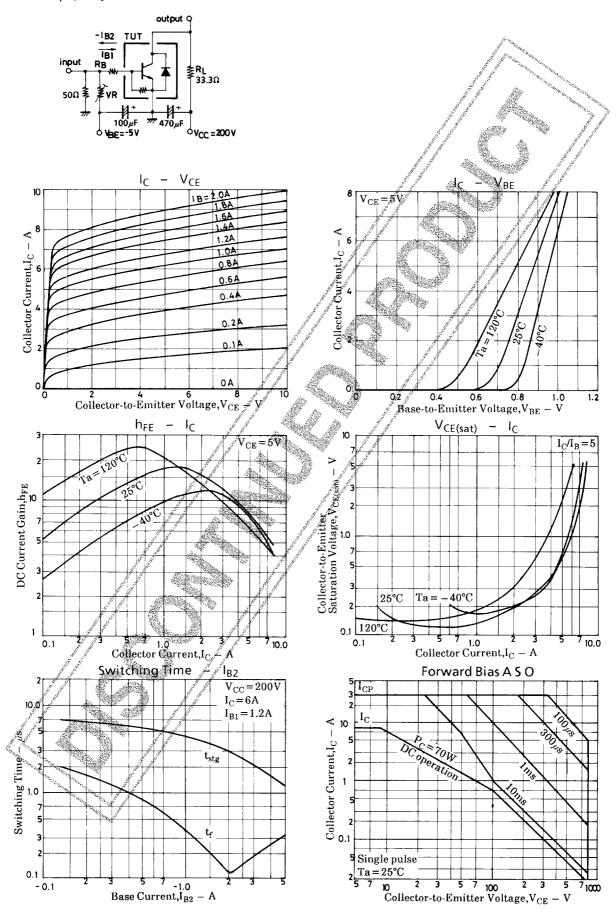
Electrical Characteristics at Ta = 25°C

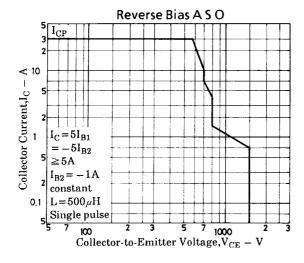
f / war.	Symbol	Conditions	Ratings			Unit
Falametel			min	typ	max	Offic
Collector Cutoff Current	CES	VCE=1500V			1.0	mA
//	I _{CBO} /	[₹] CB=800V			10	μΑ
Collector-to-Emitter Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0	800			V
Emitter Cutoff Current	l∉Bø*	V _{EB} =4V	40		130	mA
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =6A, I _B =1.2A			5	V
Base-to-Emitter Saturation Voltage	^{∦ V} BE(sat)	I _C =6A, I _B =1.2A			1.5	V
DC Current Gain	/ h _{FE} 1	V _{CE} =5V, I _C =1A	8			
	h _{FE} 2	V _{CE} =5V, I _C =6A	5		10	
Diode Forward Voltage	٧F	IEC=8A			2.0	V
Fall Time	t _f	I _C =6A, I _{B1} =1.2A, I _{B2} =-2.4A		0.1	0.3	μs

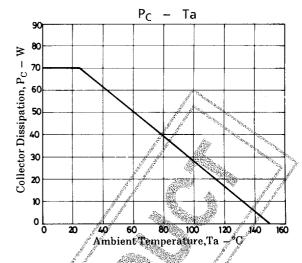
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Switching Time Test Circuit

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







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