

2SD1879

Color TV Horizontal Deflection Output Applications

Applications

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

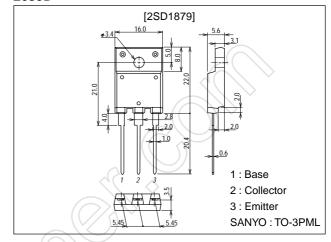
Features

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

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	6()	800	V
Emitter-to-Base Voltage	V _{EBO}	4(//	6	V
Collector Current	I _C /		6	Α
Collector Current (Pulse)	ICP		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
			min	typ	max	Offic
Collector Cutoff Current	ICES	V _{CE} =1500V			1.0	mA
	I _{CBO}	V _{CB} =800V, I _E =0			10	μA
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	40		130	mA
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =5A, I _B =1A			5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =5A, I _B =1A			1.5	V
DC Current Gain	h _{FE} 1	V _{CE} =5V, I _C =1A	8			
DC Current Gain	h _{FE} 2	V _{CE} =5V, I _C =5A	5		10	

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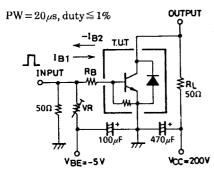
SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters

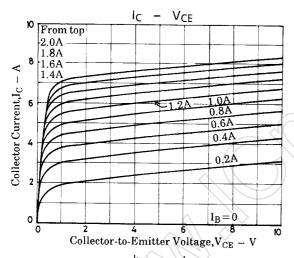
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

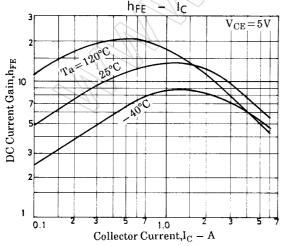
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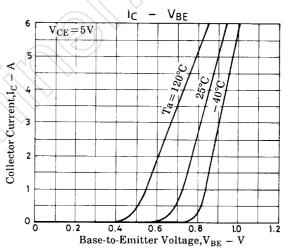
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Oill
Diode Forward Voltage	٧ _F	I _{EC} =6A, I _B =0			2.0	V
Fall Time	t _f	I _C =4A, I _{B1} =0.8A, I _{B2} =-1.6A		0.1	0.3	μs

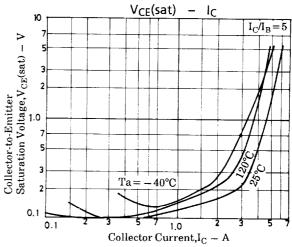
Switching Time Test Circuit

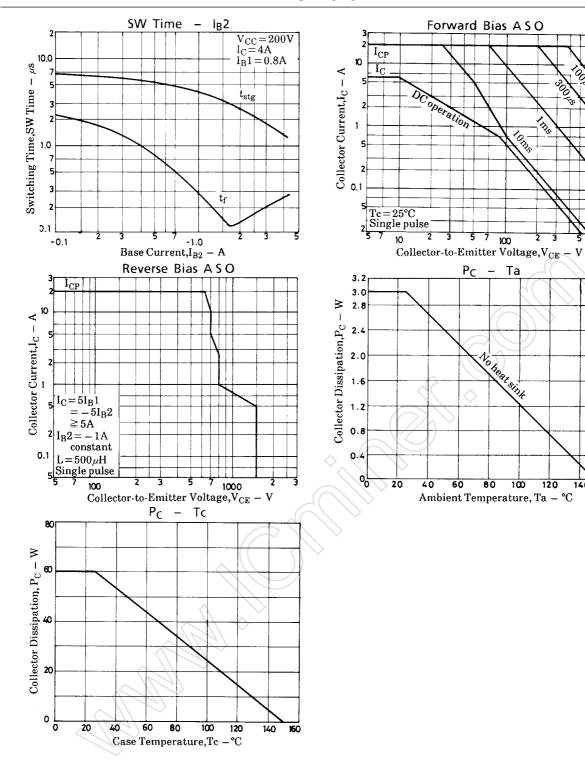












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