

2SD1876

Color TV Horizontal Deflection Output Applications

Applications

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

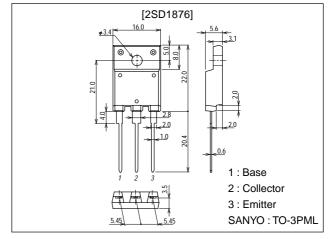
Features

- · 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

2039D



Specifications

Absolute Maximum Ratings at Ta = 25°C

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

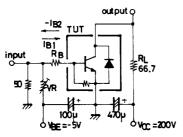
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Collector Cutoff Current	ICES	V _{CE} =1500V			1.0	mA
	I _{CBO}	V _{CB} =800V			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	40		130	mA
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =2A, I _B =0.6A			5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =2A, I _B =0.6A			1.5	V
DC Current Gain	h _{FE} 1	V _{CE} =5V, I _C =0.5A	8			
	h _{FE} 2	V _{CE} =5V, I _C =2A	3		6	
Diode Forward Voltage	٧F	I _{EC} =3A			2.0	V
Fall Time	t _f	I _C =3A, I _{B1} =0.8A, I _{B2} =-1.6A		0.1	0.3	μs

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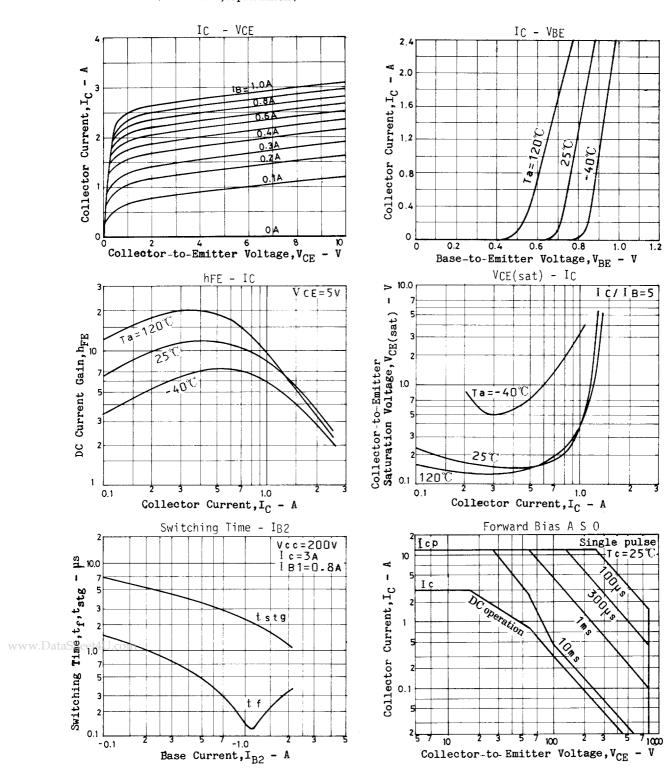
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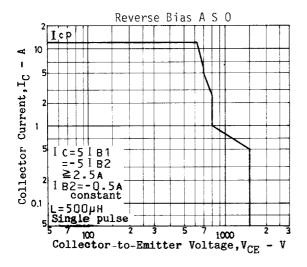
Switching Time Test Circuit

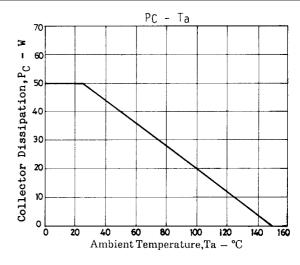


PW=20µs,duty≦1%

Unit (resistance: Ω , capacitance:F)







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