

2SD1710

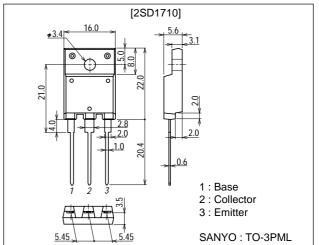
Color TV Horizontal Deflection Output Applications

Features

- · High speed(tf=500ns max).
- High breakdown voltage(V_{CBO}=1500V).
- High reliability(Adoption of HVP process).
- · Adoption of MBIT process.

Package Dimensions

unit : mm 2039D



Specifications

Absolute Maximum Ratings at Ta=25°C

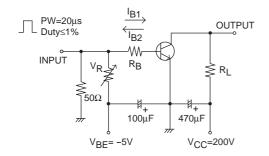
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1500	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		6	V
Collector Current	IC		5	Α
Collector Current (Pulse)	ICP		16	Α
Collector Dissipation	D-		3	W
	PC	Tc=25°C	50	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

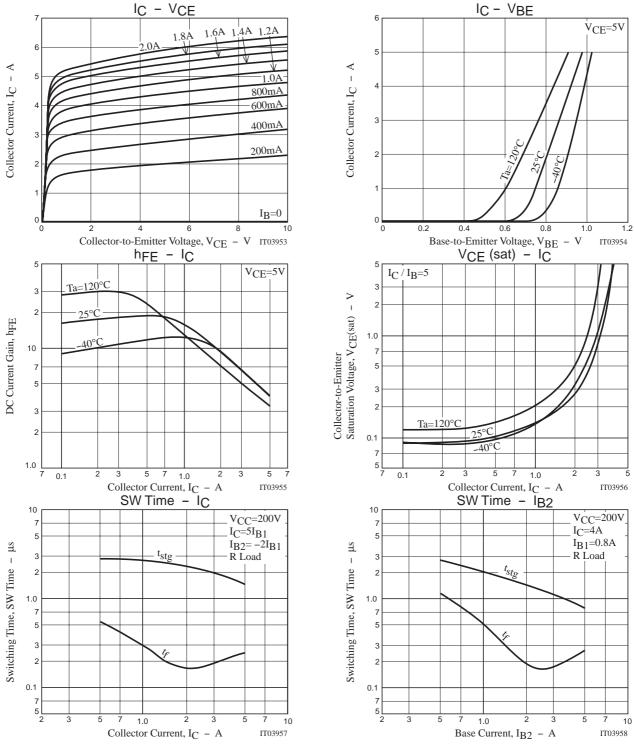
Electrical Characteristics at Ta=25°C

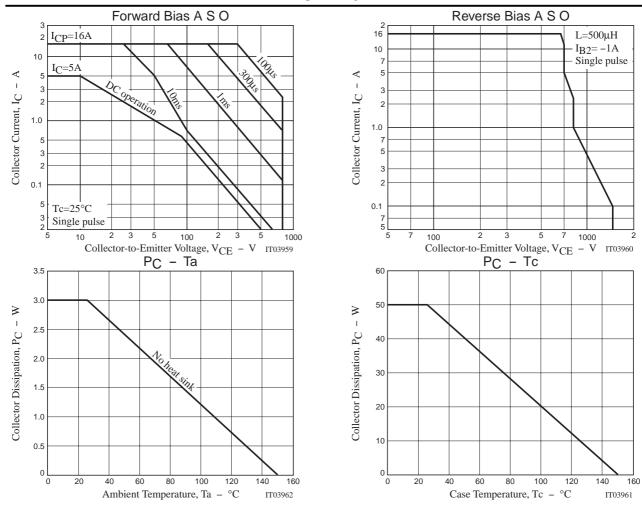
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	ICBO	V _{CB} =800V			10	μΑ
Collector Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0	800			V
Emitter Cutoff Current	IEBO	V _{EB} =5V			1	mA
DC Current Gain	hFE	V _{CE} =5V, I _C =0.5A	8			
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=4.5A, IB=2A			5	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	IC=4.5A, IB=2A			1.5	V
Fall Time	tf	I _C =3A, I _{B1} =0.8A, I _{B2} =-1.6A			0.5	μs

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Switching Time Test Circuit







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