

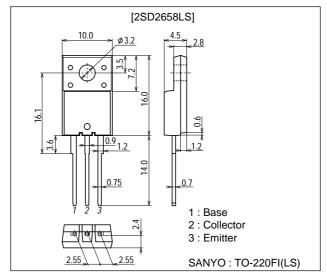
# Color TV Horizontal Deflection Output Applications

#### **Features**

- · High speed.
- High breakdown voltage (V<sub>CBO</sub>=1500V).
- · High reliability (Adoption of HVP process).
- · Adoption of MBIT process.
- · On-chip damper diode.

#### **Package Dimensions**

unit : mm 2079D



## **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		5	V
Collector Current	IC		3.5	Α
Collector Current (Pulse)	ICP		9	Α
Collector Dissipation	D-		2.0	W
	PC	Tc=25°C	25	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 <sub>CB</sub> =800V, I <sub>E</sub> =0			10	μΑ
Collector Cutoff Current	ICES	VCE=1500V, RBE=0			1.0	mA
Collector Sustain Voltage	VCEO(sus)	I <sub>C</sub> =100mA, I <sub>B</sub> =0	800			V
Emitter Cutoff Current	IEBO	V <sub>EB</sub> =4V, I <sub>C</sub> =0	40		130	mA

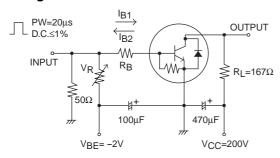
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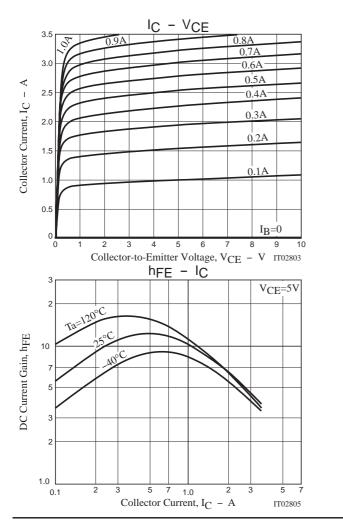
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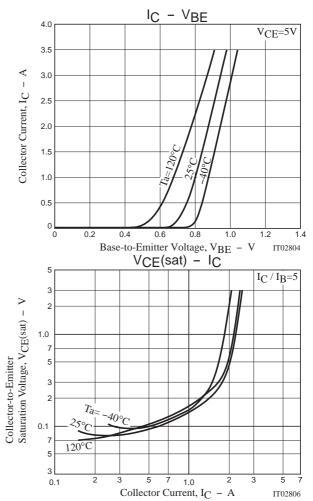
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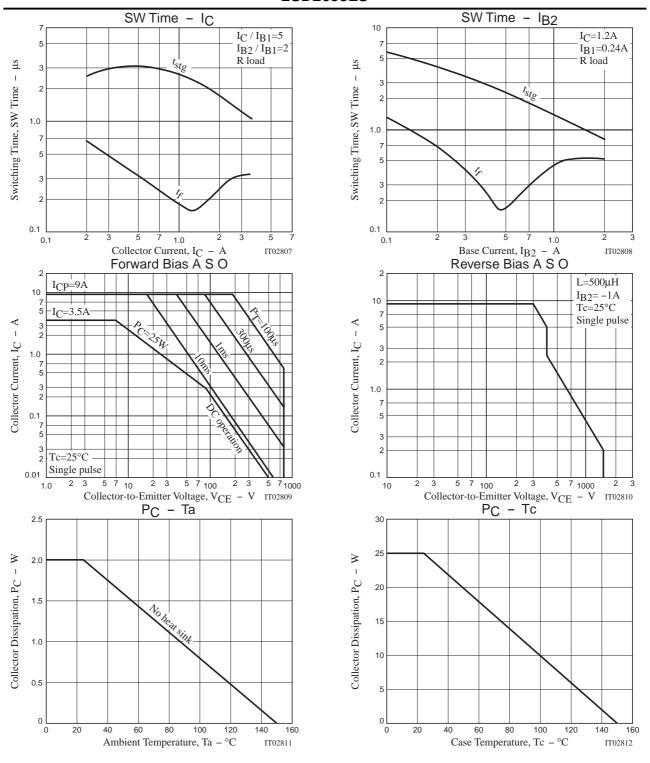
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	O i iii
Collector-to-Emitter Saturation Voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> =1.8A, I <sub>B</sub> =0.36A			3	V
Base-to-Emitter Saturation Voltage	V <sub>BE</sub> (sat)	I <sub>C</sub> =1.8A, I <sub>B</sub> =0.36A			1.5	V
DC Current Gain	hFE1	VCE=5V, IC=0.5A	5			
	hFE2	V <sub>CE</sub> =5V, I <sub>C</sub> =2A	5		8	
Diode Forward Voltage	٧F	IEC=3A			2	V
Fall Time	tf	IC=1.2A, IB1=0.24A, IB2=-0.48A			0.3	μs

## **Switching Time Test Circuit**









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