

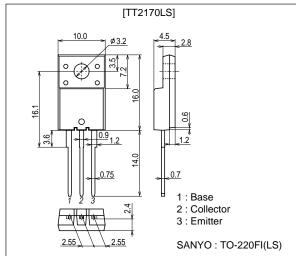
# Color TV Horizontal Deflection Output Applications

## **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		5	Α
Collector Current (Pulse)	ICP		12	Α
Collector Dissipation	Do		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
	Symbol		min	typ	max	Oill
Collector Cutoff Current	ICBO	V <sub>CB</sub> =800V, I <sub>E</sub> =0			10	μΑ
Collector Cutoff Current	ICES	V <sub>CE</sub> =1500V, R <sub>BE</sub> =0			1.0	mA
Collector Sustain Voltage	V <sub>CEO</sub> (sus)	I <sub>C</sub> =100mA, I <sub>B</sub> =0	800			V
Emitter Cutoff Current	IEBO	VBE=4V, IC=0	40		130	mA

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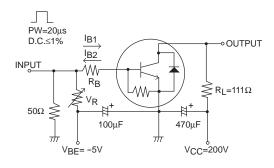
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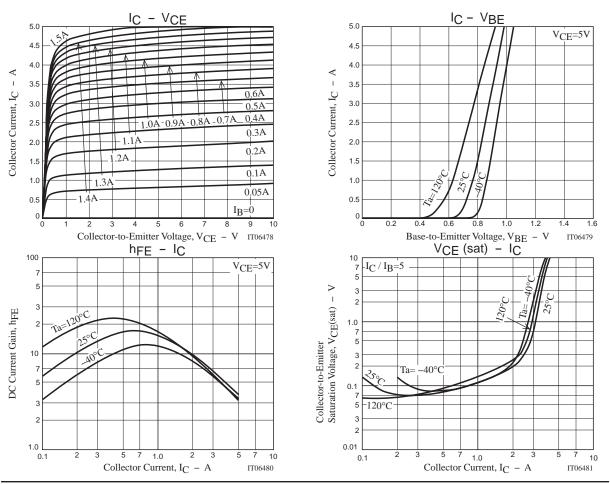
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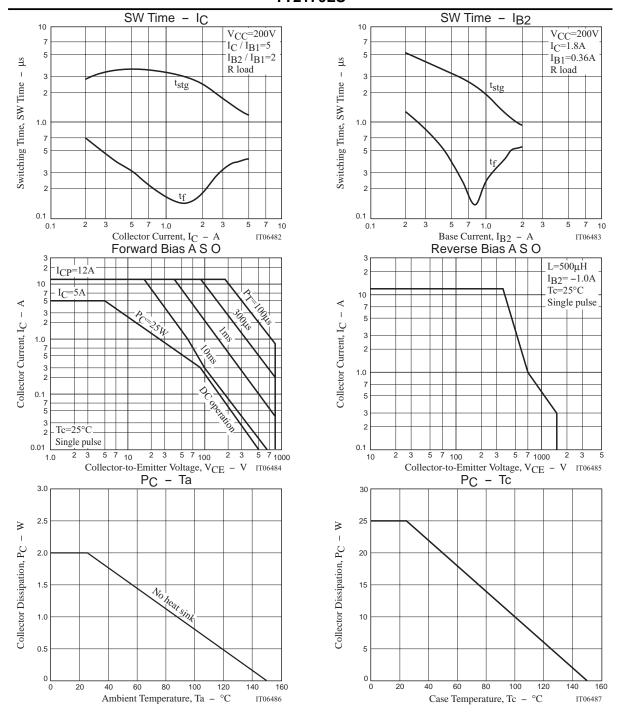
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=2.7A, IB=0.54A			3	V
Base-to-Emitter Saturation Voltage	V <sub>BE</sub> (sat)	I <sub>C</sub> =2.7A, I <sub>B</sub> =0.54A			1.5	V
DC Current Gain	hFE1	V <sub>CE</sub> =5V, I <sub>C</sub> =0.5A	10			
	hFE2	V <sub>CE</sub> =5V, I <sub>C</sub> =3A	5		8	
Diode Forward Voltage	٧F	IEC=4A			2	V
Fall Time	t <sub>f</sub>	I <sub>C</sub> =1.8A, I <sub>B1</sub> =0.36A, I <sub>B2</sub> =-0.72A			0.3	μs

# **Switching Time Test Circuit**







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