

# SANYO Semiconductors DATA SHEET

# 2SC6090LS — Color TV Horizontal Deflection Output Applications

# www.DataSheefFeatures

- · High speed.
- High breakdown voltage (VCBO=1500V).
- · Adoption of high reliability HVP process.
- · Adoption of MBIT process.

# **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		700	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		10	Α
Collector Current (Pulse)	ICP		25	А
Collector Dissipation	P.o.		2.0	W
	PC	Tc=25°C	35	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	Unit
Collector Cutoff Current	ICBO	V <sub>CB</sub> =800V, I <sub>E</sub> =0A			10	μΑ
Collector Cutoff Current	ICES	V <sub>CE</sub> =1500V, R <sub>BE</sub> =0Ω			1.0	mA
Collector Sustain Voltage	VCEO(sus)	I <sub>C</sub> =100mA, I <sub>B</sub> =0A	700			V
Emitter Cutoff Current	IEBO	V <sub>EB</sub> =4V, I <sub>C</sub> =0A			1.0	mA

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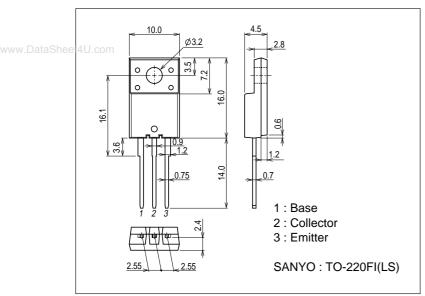
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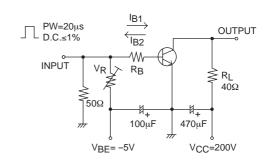
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=7.2A, IB=1.44A			3	V
Base-to-Emitter Saturation Voltage	V <sub>BE</sub> (sat)	I <sub>C</sub> =7.2A, I <sub>B</sub> =1.44A			1.5	V
DC Current Gain	hFE1	V <sub>CE</sub> =5V, I <sub>C</sub> =1A	15			
	hFE2	VCE=5V, IC=8A	5		7	
Fall Time	tf	I <sub>C</sub> =5A, I <sub>B1</sub> =1A, I <sub>B2</sub> =-2A			0.2	μS

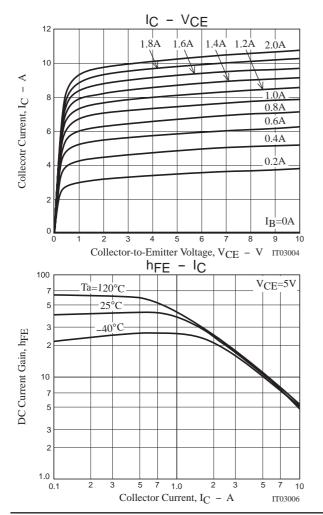
#### **Package Dimensions**

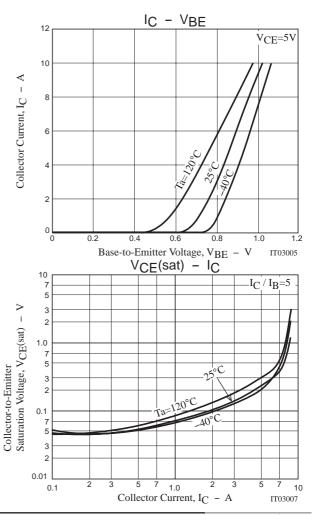
unit : mm (typ) 7509-003



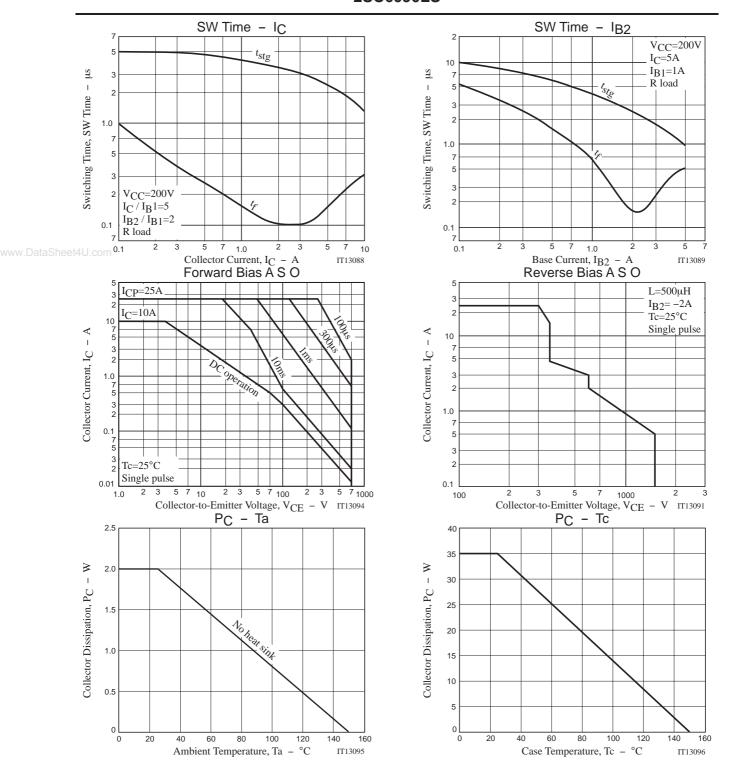
# **Switching Time Test Circuit**







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