

SANYO Semiconductors DATA SHEET

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2SC6090LS — Color TV Horizontal Deflection Output Applications

Features

- · 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	Do.		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	Cumbal	Conditions		Ratings			
	Symbol		min	typ	max	Unit	
Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0A			10	μΑ	
Collector Cutoff Current	ICES	VCE=1500V, RBE=0Ω			1.0	mA	
Collector Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0A	700			V	
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0A			1.0	mA	

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SANYO Semiconductor Co., Ltd.

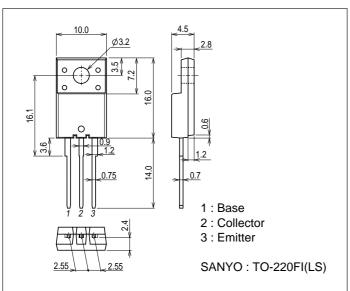
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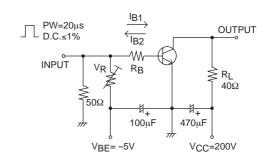
	Parameter	Symbol	Conditions	Ratings			Unit
	Faiailletei			min	typ	max	Offic
	Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=7.2A, IB=1.44A			3	V
	Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =7.2A, I _B =1.44A			1.5	V
	DC Current Gain	hFE1	V _{CE} =5V, I _C =1A	15			
		hFE2	VCE=5V, IC=8A	5		7	
www da	Fall Time	t _f	I _C =5A, I _{B1} =1A, I _{B2} =-2A			0.2	μS

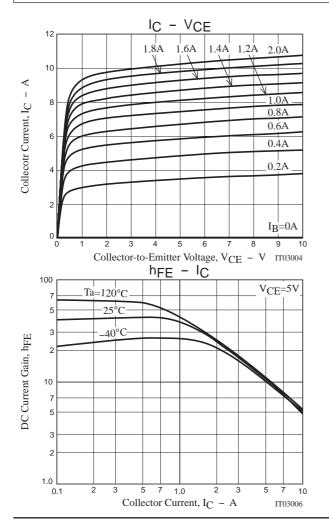
Package Dimensions

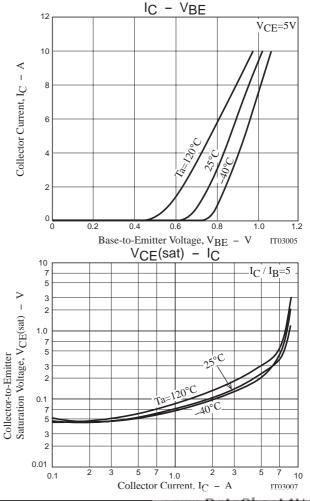
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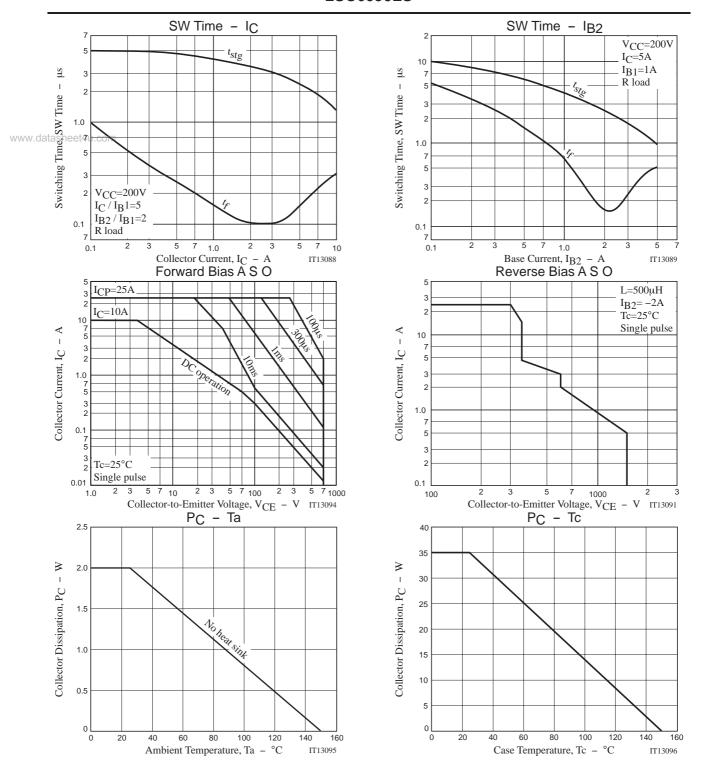


Switching Time Test Circuit









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