

SANYO Semiconductors DATA SHEET

2SC6093LS — Color TV Horizontal Deflection Output Applications

Features

- · High speed.
- High breakdown voltage (V_{CBO}=1500V).
- · High reliability (Adoption of HVP process).
- · Adoption of MBIT process.
- · On-chip damper diode.

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

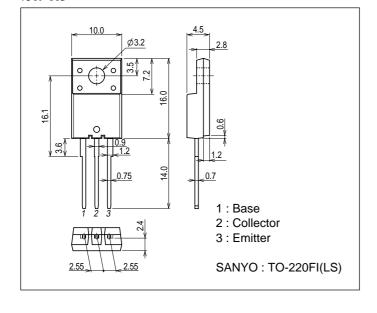
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Collector Cutoff Current	ICBO	VCB=800V, IE=0A			10	μΑ
Collector Cutoff Current	ICES	V _{CE} =1500V, R _{BE} =0Ω			1.0	mA
Collector Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0A	800			V
Emitter Cutoff Current	IEBO	VEB=4V, IC=0A	40		130	mA
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)1	I _C =1.35A, I _B =0.27A	0.1		0.3	V
	V _{CE} (sat)2	I _C =2.7A, I _B =0.54A			2	V
Base-to-Emitter Saturation Voltage	VBE(sat)	IC=2.7A, IB=0.54A			1.5	V
DC Current Gain	hFE1	V _{CE} =5V, I _C =0.5A	10			
	hFE2	V _{CE} =5V, I _C =3A	5.3		7.5	
Diode Forward Voltage	VF	IEC=4A			2	V
Fall Time	tf	I _C =1.8A, I _{B1} =0.36A, I _{B2} =-0.72A			0.2	μS

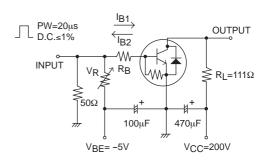
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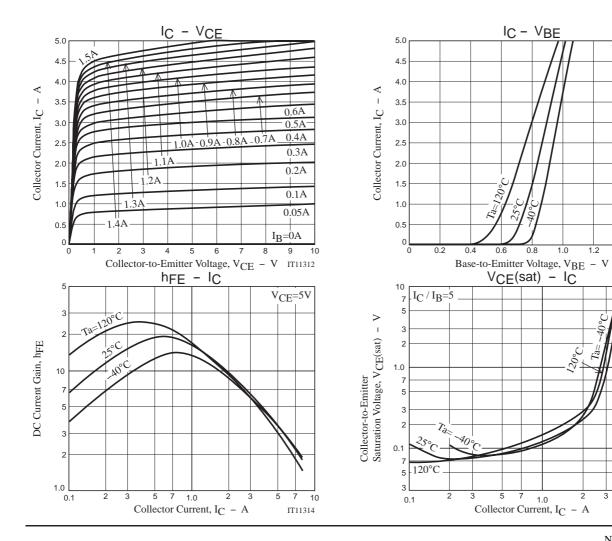
Package Dimensions

unit : mm (typ) 7509-003



Switching Time Test Circuit





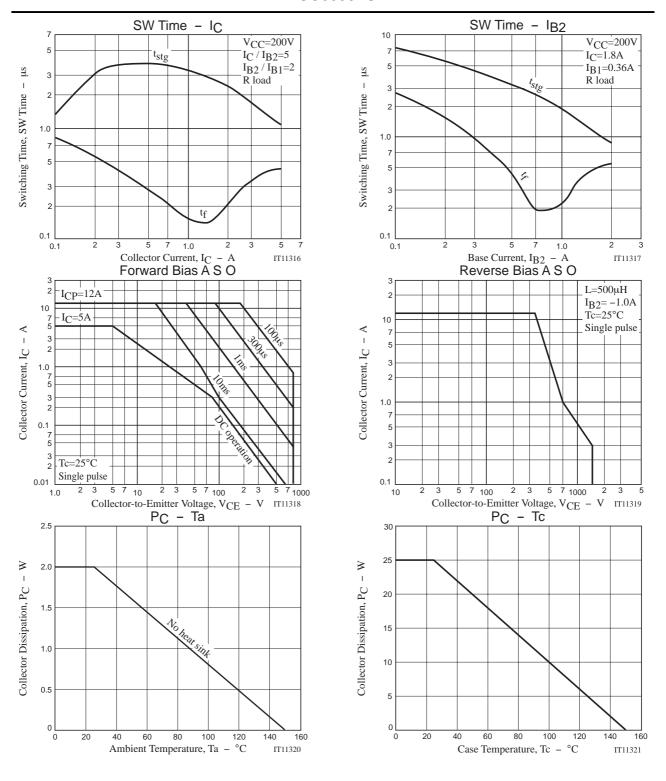
IT11315

V_{CE}=5V

1.4

IT11313

2SC6093LS



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