

### SANYO Semiconductors

## DATA SHEET

# 2SC6091 — 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		8	A
Collector Current (Pulse)	ICP		20	A
Collector Dissipation	Po		3.0	W
	PC	Tc=25°C	65	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	VCE=1500V, RBE=0Ω			10	mA
Collector Sustain Voltage	VCEO(sus)	IC=100mA, IB=0A	700			V
Emitter Cutoff Current	IEBO	V <sub>EB</sub> =4V, I <sub>C</sub> =0A			1	mA

Continued on next page.

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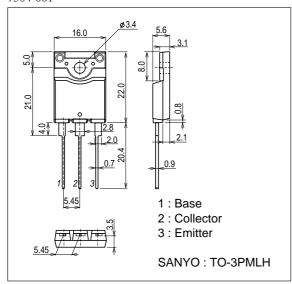
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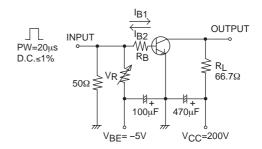
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector-to-Emitter Saturation Voltage	VCE(sat)1	IC=2.25A, IB=0.45A	0.1		0.3	V
	V <sub>CE</sub> (sat)2	IC=4.5A, IB=0.9A			2	V
Base-to-Emitter Saturation Voltage	V <sub>BE</sub> (sat)	IC=4.5A, IB=0.9A			1.5	V
DC Current Gain	hFE1	VCE=5V, IC=1A	10			
	hFE2	V <sub>CE</sub> =5V, I <sub>C</sub> =5A	5.3		7.5	
Fall Time	tf	IC=3A, IB1=0.6A, IB2=-1.2A			0.2	μS

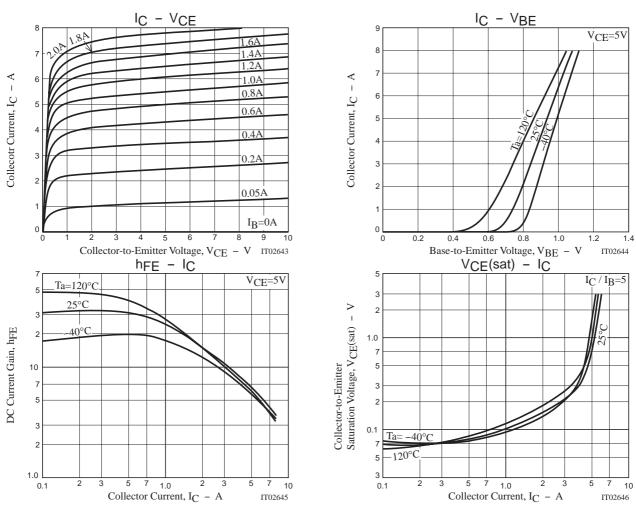
#### **Package Dimensions**

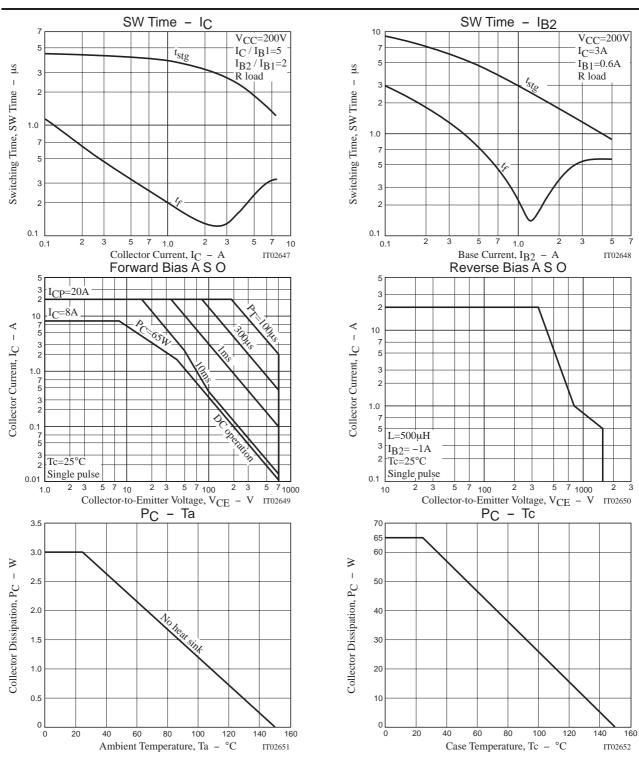
unit : mm (typ) 7504-001



#### **Switching Time Test Circuit**







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