

## SANYO Semiconductors DATA SHEET

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### 2SD1886C — NPN Triple

NPN Triple Diffused Planar Silicon Transistor

# **Color TV Horizontal Deflection Output Applications**

#### **Features**

- · High speed.
- High breakdown voltage (VCBO=1500V).
- · High reliability (Adoption of 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	Α
Collector Current (Pulse)	ICP		25	Α
Collector Dissipation	Do.		3.0	W
	PC	Tc=25°C	80	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=0A			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>BE</sub> =4V, I <sub>C</sub> =0A			1.0	mA

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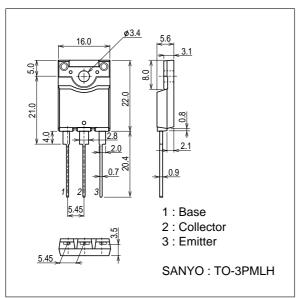
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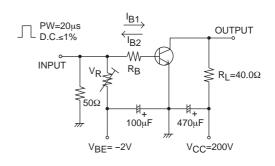
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	O IIII
DC Current Gain	hFE1	VCE=5V, IC=1A	15			
	hFE2	V <sub>CE</sub> =5V, I <sub>C</sub> =8A	5		8	
Collector-to-Emitter Saturation Voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> =7.2A, I <sub>B</sub> =1.44A			3	V
Base-to-Emitter Saturation Voltage	VBE(sat)	IC=7.2A, IB=1.44A			1.5	V
Fall Time	tf	I <sub>C</sub> =5A, I <sub>B1</sub> =1A, I <sub>B2</sub> =-2A			0.3	μS

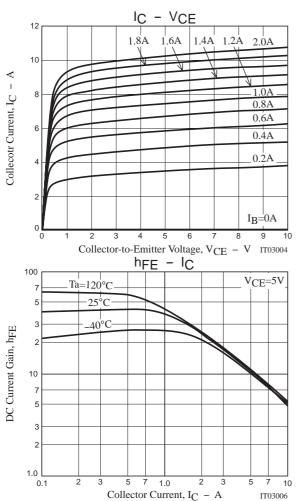
#### **Package Dimensions**

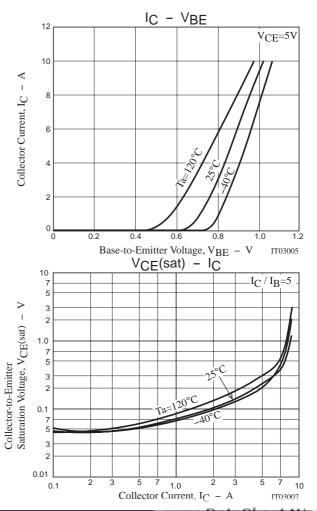
unit : mm (typ) 7504-001

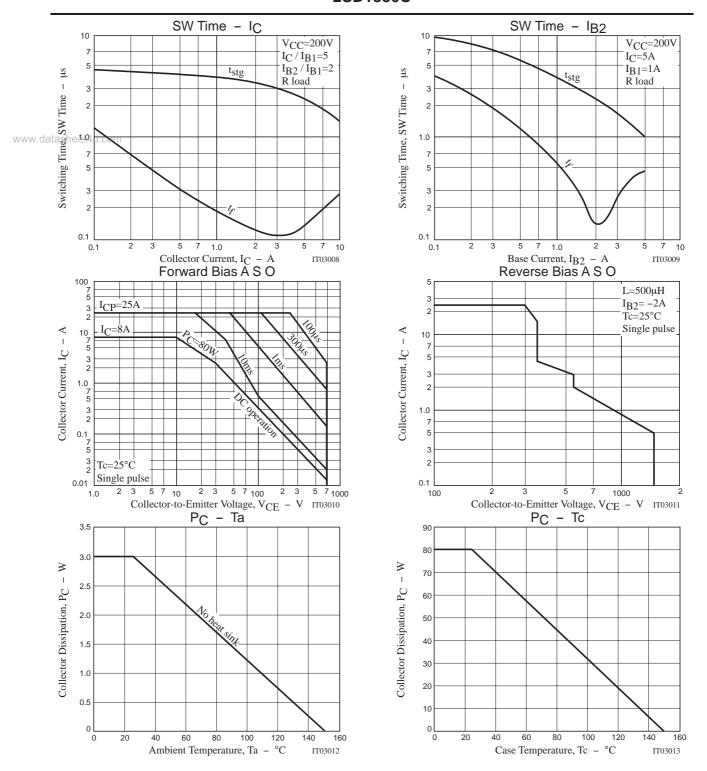


#### **Switching Time Test Circuit**









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