

2SC5696

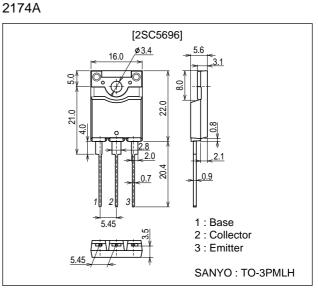
Color TV Horizontal Deflection Output Applications

Features

- High speed.
- High breakdown voltage(VCBO=1600V).
- High reliability(Adoption of HVP process).
- · Adoption of MBIT process.
- On-chip damper diode.

Package Dimensions

unit : mm



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1600	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		12	А
Collector Current (Pulse)	ICP		36	А
Collector Dissipation	Do		3.0	W
	PC	Tc=25°C	85	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			11-14
	Symbol		min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0			10	μΑ
Collector Cutoff Current	ICES	VCE=1600V, RBE=0			1.0	mA
Collector Sustain Voltage	VCEO(sus)	IC=100mA, IB=0	800			V
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0	80		800	mA

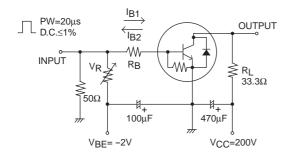
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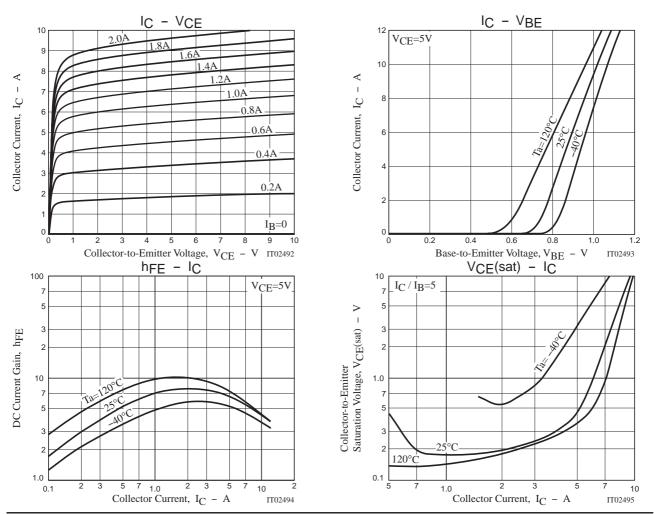
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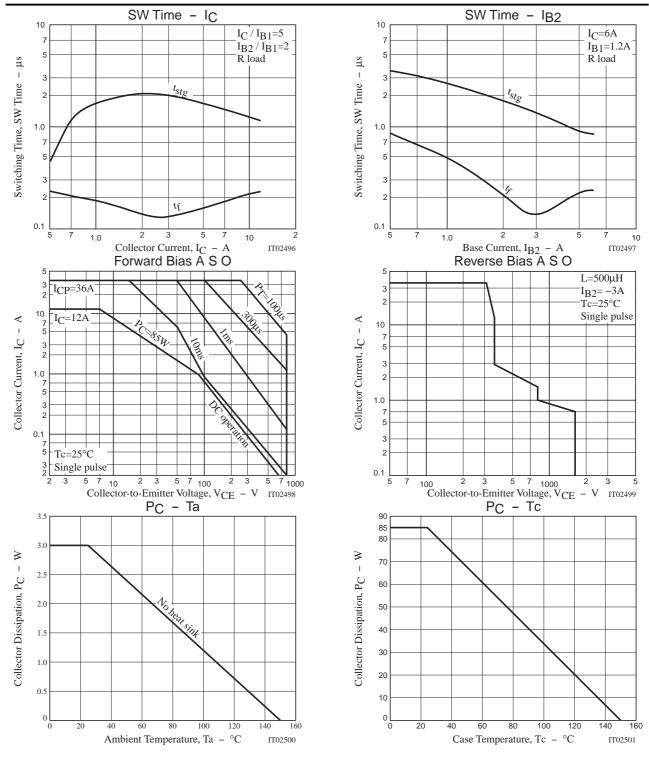
SANYO Electric Co., Ltd. Semiconductor Company TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN Continued from preceding page.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	IC=7.2A, IB=1.8A			3	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	IC=7.2A, IB=1.8A			1.5	V
DC Current Gain	hFE1	V _{CE} =5V, I _C =1A	3		11	
	hFE2	V _{CE} =5V, I _C =8A	4		7	
Fall Time	tf	I _C =6A, I _{B1} =1.2A, I _{B2} =-2.4A			0.3	μs
Storage Time	tstg	IC=6A, IB1=1.2A, IB2=-2.4A			2.0	μs
Diode Forward Voltage	٧F	I _{EC} =10A			2.2	V

Switching Time Test Circuit







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