2SC5506



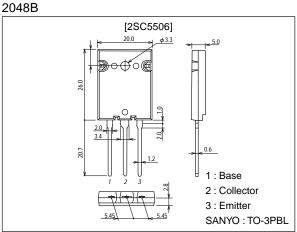
Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Features

- · High speed.
- · High breakdown voltage (V_{CBO} =1600V).
- · High reliability (Adoption of HVP process).
- · Adoption of MBIT process.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1600	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		6	V
Collector Current	IC		20	A
Collector Current (Pulse)	ICP		40	A
Collector Dissipation	PC		3.5	W
		Tc=25°C	180	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	
Collector Cutoff Current	ICES	V _{CE} =1600V, R _{BE} =0			1.0	mA
Collector-to-Emitter Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0	800			V
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0			1.0	mA
Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0			10	μA
DC Current Gain	h _{FE} 1	V _{CE} =5V, I _C =1A	15		30	
	h _{FE} 2	V _{CE} =5V, I _C =14A	4		7	

Continued on next page.

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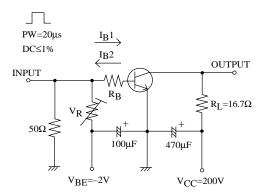
SANYO Electric Co., Ltd. Semiconductor Company TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

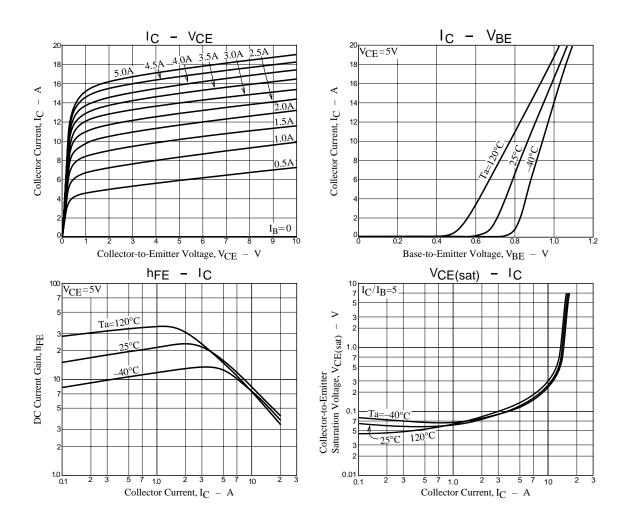
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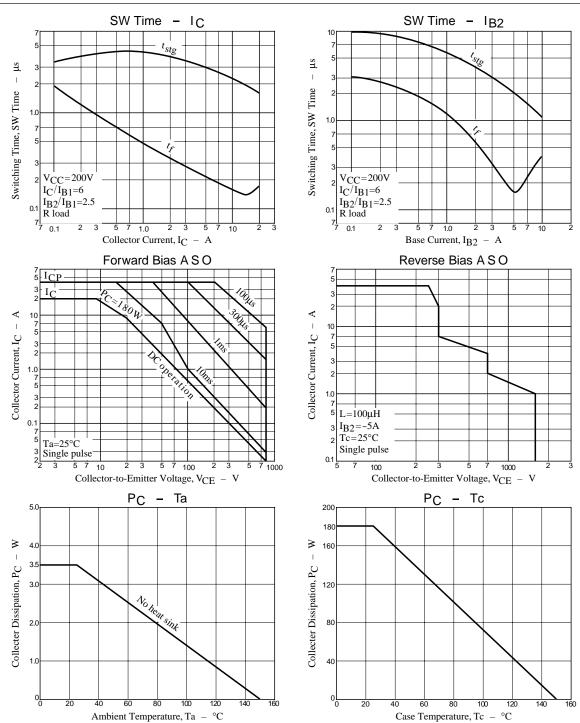
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =14A, I _B =3.5A			5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =14A, I _B =3.5A			1.5	V
Storage Time	tstg	I _C =12A, I _{B1} =2.0A, I _{B2} =-5.0A			3.0	μs
Fall Time	t _f	I _C =12A, I _{B1} =2.0A, I _{B2} =-5.0A			0.2	μs

Switching Time Test Circuit







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