

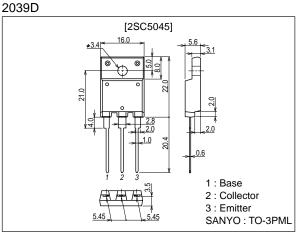
2SC5045 Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Features

- · High speed ($t_f=100$ ns typ).
- · High reliability (Adoption of HVP process).
- · High breakdown voltage (V_{CBO} =1600V).
- · 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	ι _C		15	A
Collector Current (Pulse)	ICP		35	Α
Collector Dissipation	P-		3.0	W
	PC	Tc=25°C	75	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	ICBO	V _{CB} =800V, I _E =0			10	μA
	ICES	V _{CE} =1600V, R _{BE} =0			1.0	mA
Collector-to-Emitter Sastain Voltage	V _{CEO(sus)}	I _C =100mA, I _B =0	800			V
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0			1.0	mA
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =12A, I _B =3A			5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =12A, I _B =3A			1.5	V

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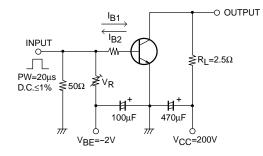
SANYO Electric Co., Ltd. Semiconductor Company TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

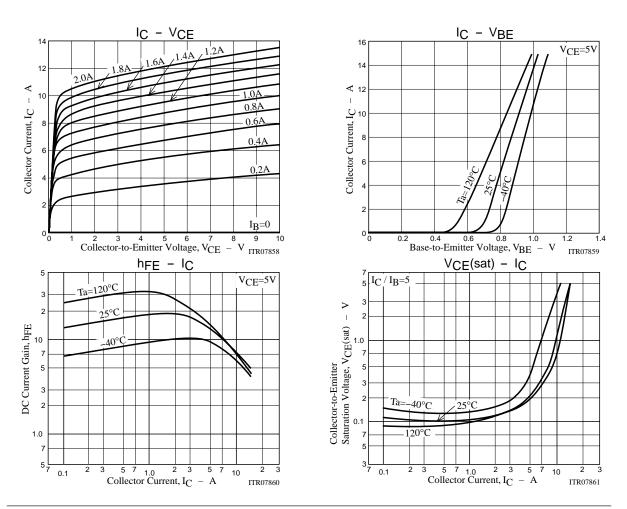
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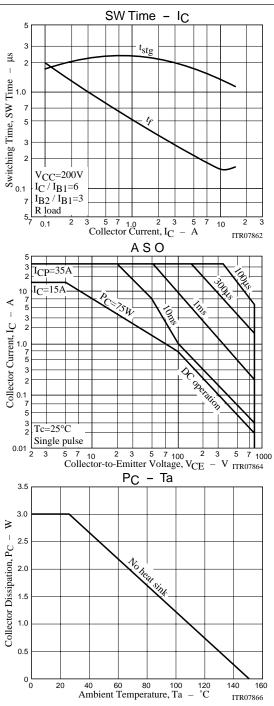
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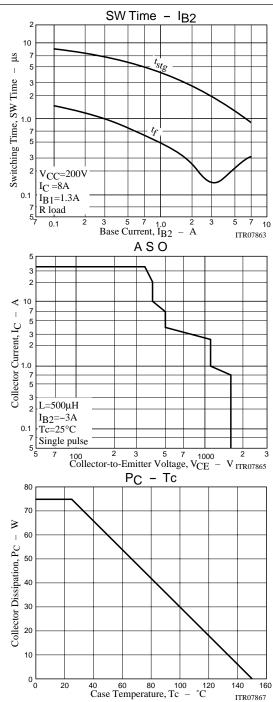
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
DC Current Gain	h _{FE} 1	V _{CE} =5V, I _C =1A	15		25	
	h _{FE} 2	V _{CE} =5V, I _C =12A	4		7	
Storage Time	^t stg	I _C =8A, I _{B1} =1.3A, I _{B2} =-4.0A			2.0	μs
Fall Time	t _f	I _C =8A, I _{B1} =1.3A, I _{B2} =-4.0A		0.1	0.2	μs

Switching Time Test Circuit









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