

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	PC		3.0	W
		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
Faranieter			min	typ	max	Unit
Collector Cutoff Current	ІСВО	V _{CB} =800V, I _E =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	VEB=4V, IC=0A			1	mA

Continued on next page.

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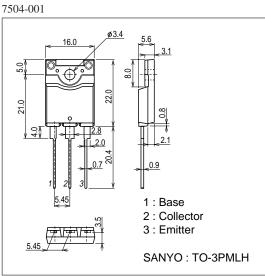
SANYO Semiconductor Co., Ltd.

TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

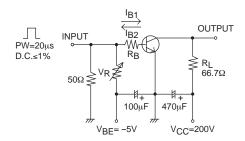
Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)1	IC=2.25A, IB=0.45A	0.1		0.3	V
	VCE(sat)2	IC=4.5A, IB=0.9A			2	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	IC=4.5A, IB=0.9A			1.5	V
DC Current Gain	hFE1	VCE=5V, IC=1A	10			
	hFE2	V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

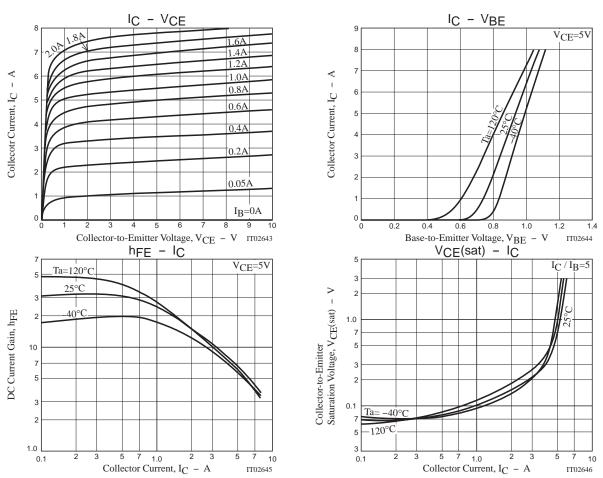
Package Dimensions

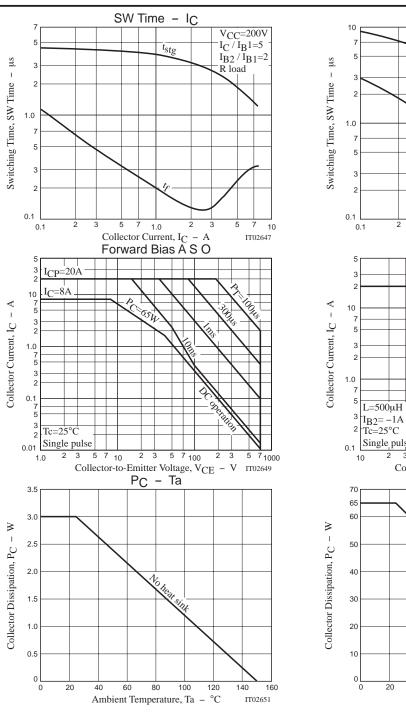
unit : mm (typ)

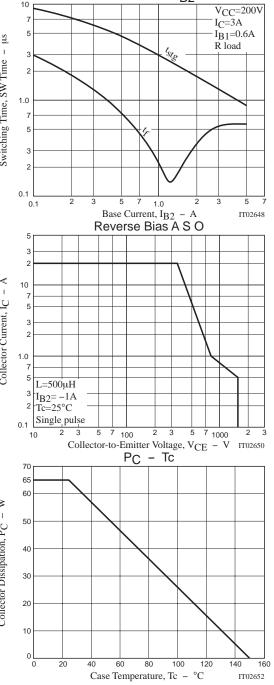


Switching Time Test Circuit









SW Time - IB2

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