Ordering number : ENA0995



SANYO Semiconductors DATA SHEET

2SC6089 — 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		10	Α
Collector Current (Pulse)	ICP		25	А
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			Linit	
www.Da	Parameter DataSheet4U.com			min	typ	max	Unit	
	Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0A			10	μΑ	
	Collector Cutoff Current	ICES	V_{CE} =1500V, R_{BE} =0 Ω			1.0	mA]
	Collector Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0A	700			V]
	Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0A			1.0	mA	1

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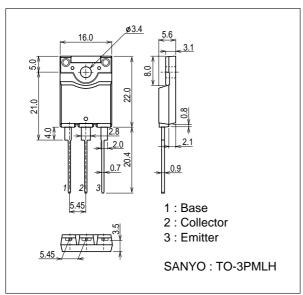
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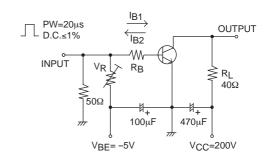
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=7.2A, IB=1.44A			3	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =7.2A, I _B =1.44A			1.5	V
DC Current Gain	hFE1	V _{CE} =5V, I _C =1A	15			
	hFE2	VCE=5V, IC=8A	5		7	
Fall Time	t _f	I _C =5A, I _{B1} =1A, I _{B2} =-2A			0.2	μs

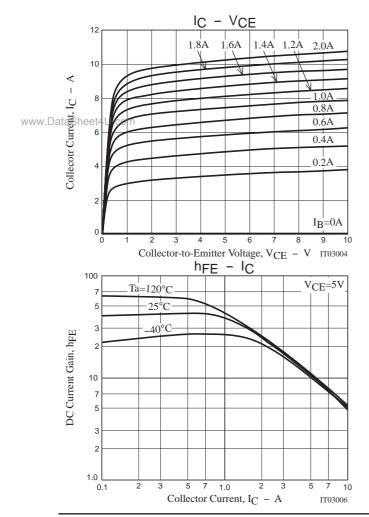
Package Dimensions

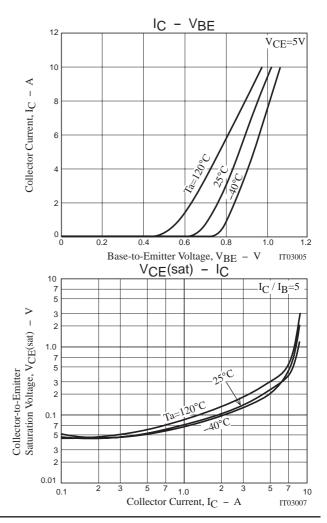
unit : mm (typ) 7504-001

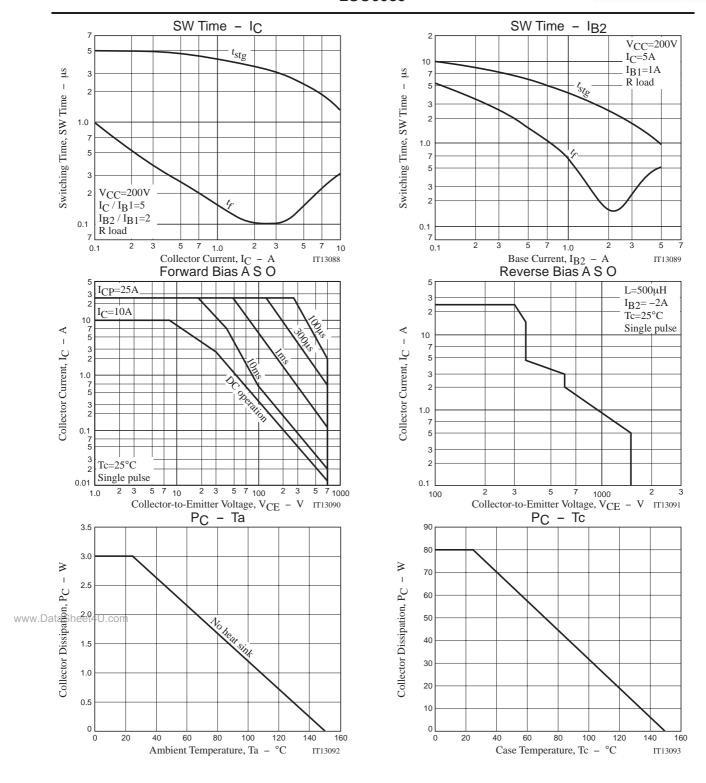


Switching Time Test Circuit









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