

SANYO Semiconductors DATA SHEET

2SD2645 — Color TV Horizontal Deflection Output Applications

Features

- · High speed.
- High breakdown voltage(V_{CBO}=1500V).
- High reliability(Adoption of HVP process).
- · Adoption of MBIT process.
- · On-chip damper diode.

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		800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		10	Α
Collector Current (Pulse)	ICP		25	Α
Collector Dissipation	D-		3.0	W
	PC	Tc=25°C	80	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

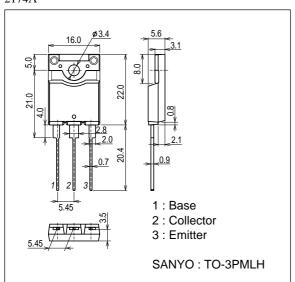
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0			10	μΑ
	ICES	V _{CE} =1500V, R _{BE} =0			1.0	mA
Collector Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0	800			V
Emitter Cutoff Current	IEBO	VEB=4V, IC=0	40		130	mA
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	I _C =7.2A, I _B =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	VCE=5V, IC=1A	15			
	hFE2	V _{CE} =5V, I _C =8A	5		8	
Diode Forward Voltage	VF	I _{EC} =8A			2	V
Fall Time	tf	IC=5A, IB1=1A, IB2=-2A			0.3	μs

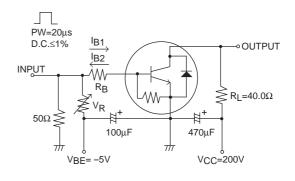
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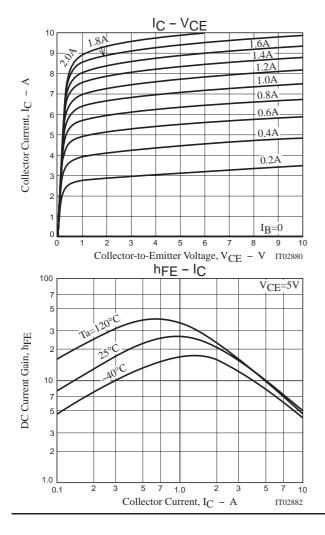
Package Dimensions

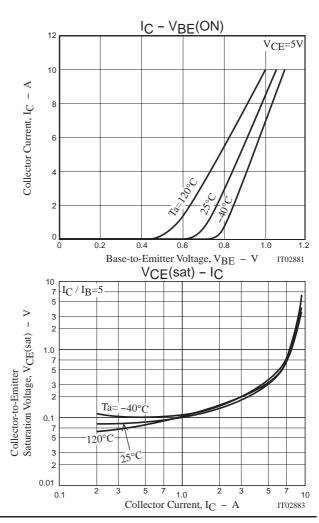
unit : mm 2174A



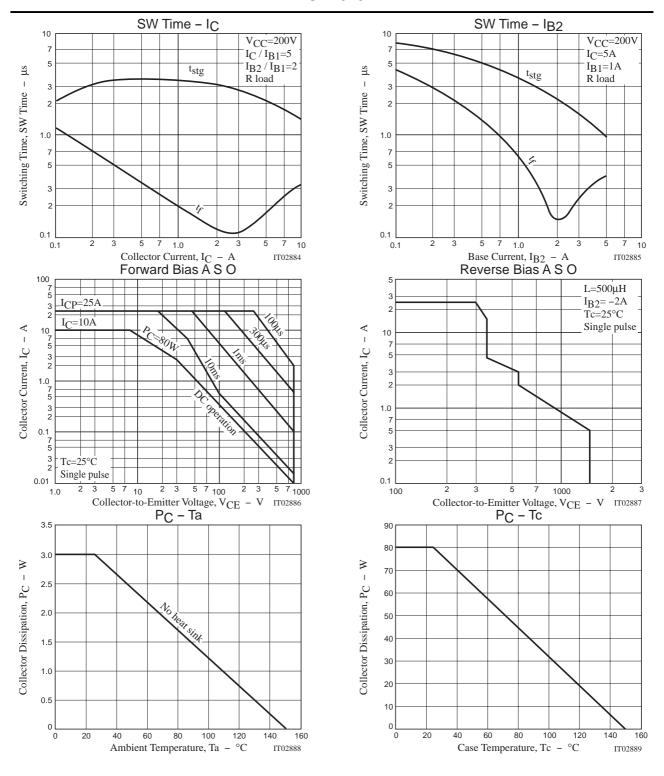
Switching Time Test Circuit







2SD2645



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