

2SD2649

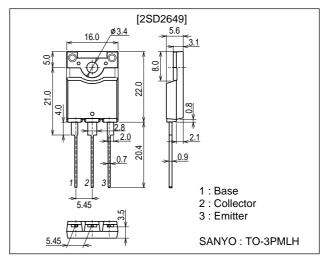
Color TV Horizontal Deflection Output Applications

Features

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

Package Dimensions

unit : mm 2174A



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		6	Α
Collector Current (Pulse)	ICP		15	Α
Collector Dissipation	Do.		3.0	W
	PC	Tc=25°C	60	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	∘C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Onit
Collector Cutoff Current	ІСВО	VCE=800V, IE=0			10	μΑ
Collector Cutoff Current	ICES	V _{CE} =1500V, R _{BE} =0			1.0	mA
Collector Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0	700			V
Emitter Cutoff Current	IEBO	VEB=4V, IC=0			1	mA

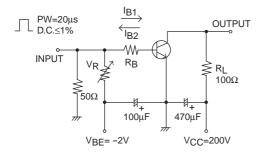
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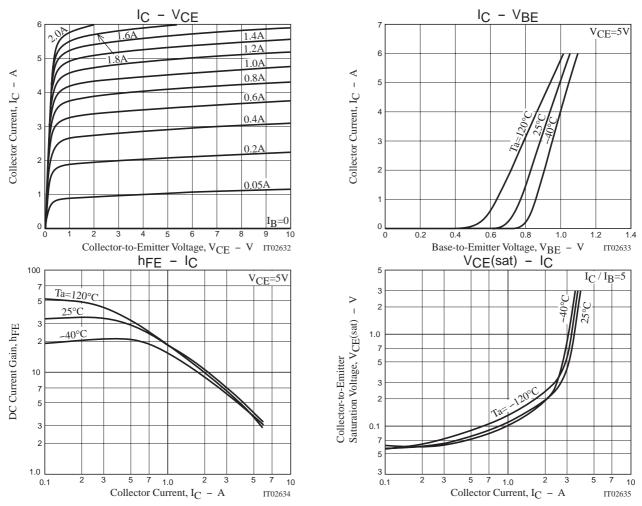
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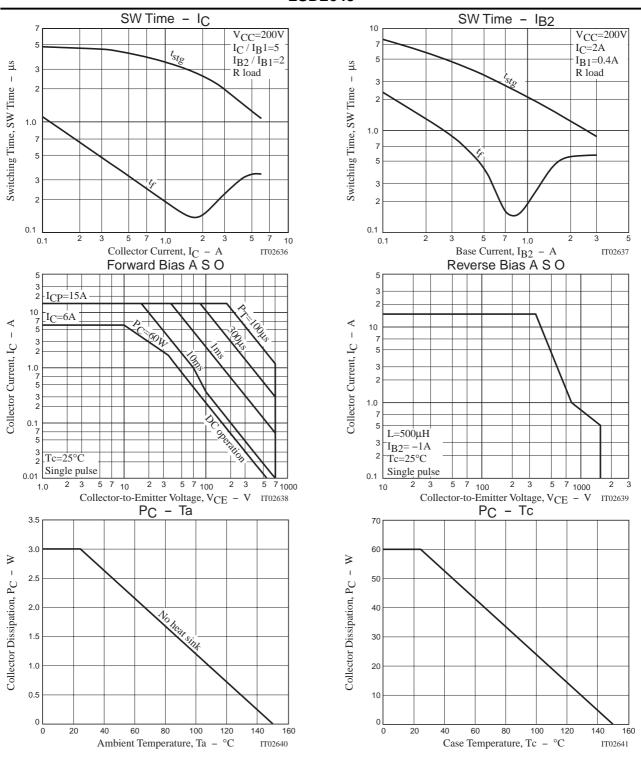
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	I _C =3.15A, I _B =0.63A			3	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =3.15A, I _B =0.63A			1.5	V
DC Current Gain	hFE1	VCE=5V, IC=0.5A	10			
	hFE2	V _{CE} =5V, I _C =3.5A	5		8	
Fall Time	t _f	I _C =2A, I _{B1} =0.4A, I _{B2} =-0.8A			0.3	μs

Switching Time Test Circuit







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