

2SC5690

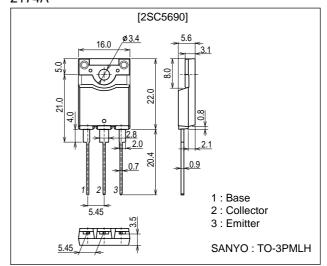
Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Features

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

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		800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		15	Α
Collector Current (Pulse)	ICP		35	Α
Collector Dissipation			3.0	W
	PC	Tc=25°C	85	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	V _{EB} =4V, I _C =0	40		130	mA
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=10.8A, IB=2.7A			3	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =10.8A, I _B =2.7A			1.5	V
DC Current Gain	hFE1	V _{CE} =5V, I _C =1A	10			
	hFE2	VCE=5V, IC=12A	4		7	

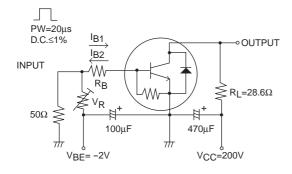
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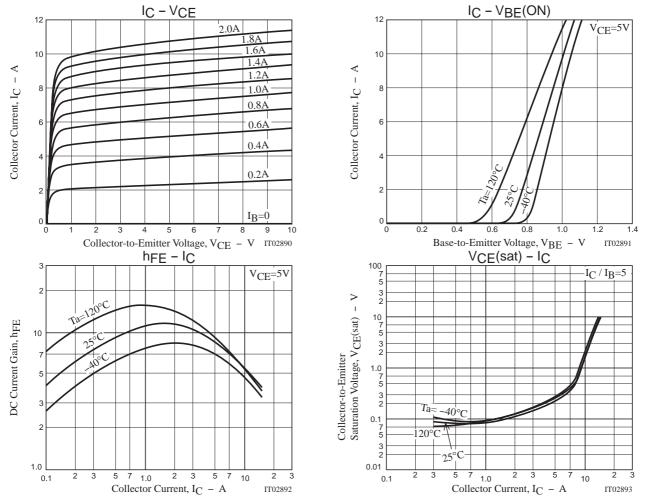
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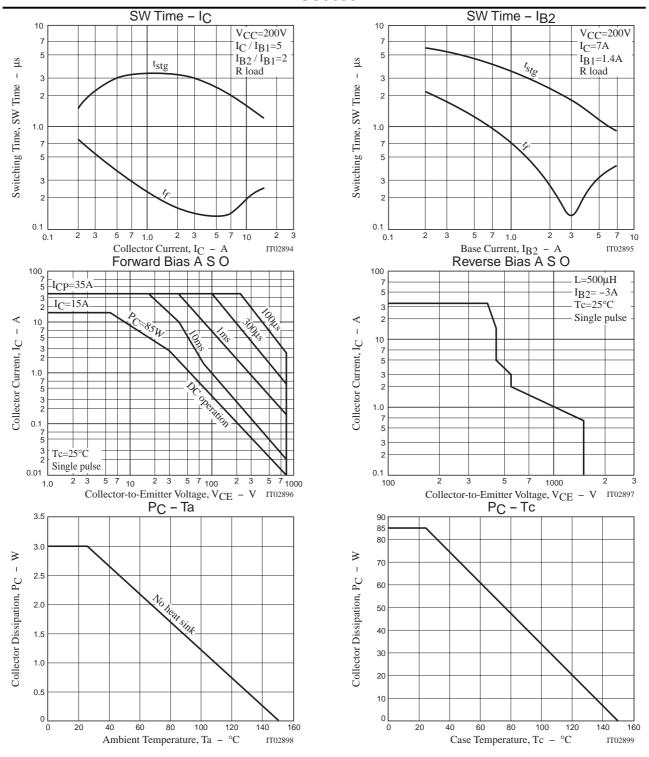
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Diode Forward Voltage	٧F	I _{EC} =12A			2	٧
Storage Time	tstg	IC=7A, IB1=1.4A, IB2=-2.8A			3.0	μs
Fall Time	tf	I _C =7A, I _{B1} =1.4A, I _{B2} =-2.8A			0.2	μs

Switching Time Test Circuit







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