

SANYO Semiconductors DATA SHEET

2SC5722 — Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Features

- · High speed.
- High breakdown voltage(V_{CBO}=1500V).
- · High reliability(Adoption of 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		800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		20	Α
Collector Current (Pulse)	ICP		40	Α
Collector Dissipation	PC		3.5	W
	FC	Tc=25°C	140	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

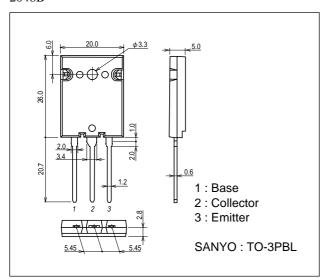
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0			10	μΑ
Collector Cutoff Current	ICES	V _{CE} =1500V, R _{BE} =0			1.0	mA
Collector Sustain Voltage	VCEO(sus)	IC=100mA, IB=0	800			V
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0			1.0	mA
DC Current Gain	hFE(1)	V _{CE} =5V, I _C =1A	15			
	hFE(2)	VCE=5V, IC=16A	4		7	
Collectoe-to-Emitter Saturation Voltage	V _{CE} (sat)	I _C =14.4A, I _B =3.6A			3	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	IC=14.4A, IB=3.6A			1.5	V
Storage Time	tstg	IC=10A, IB1=2A, IB2=-4A			3.0	μs
Fall Time	tf	I _C =10A, I _{B1} =2A, I _{B2} =-4A			0.2	μs

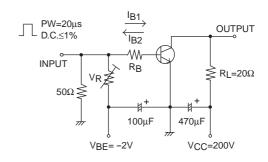
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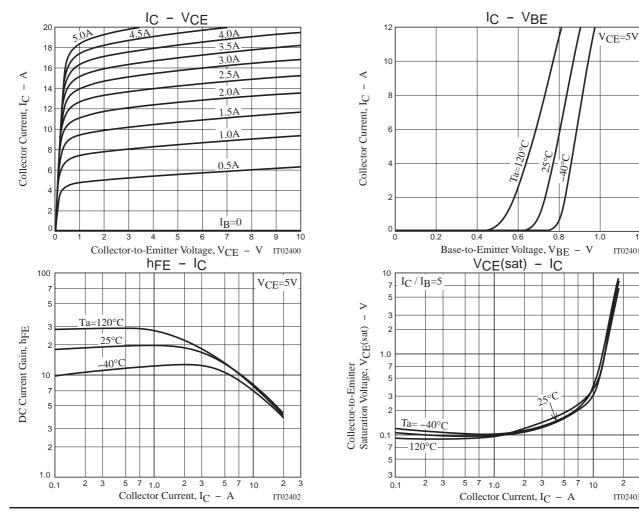
Package Dimensions

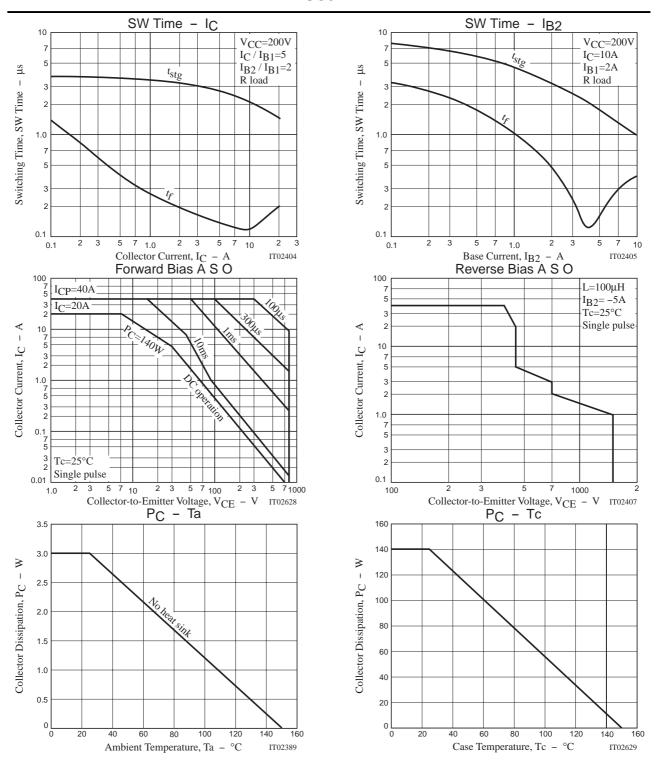
unit : mm 2048B



Switching Time Test Circuit







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