Ordering number : ENN6993A

NPN Triple Diffused Planar Silicon Transistor



2SC5791

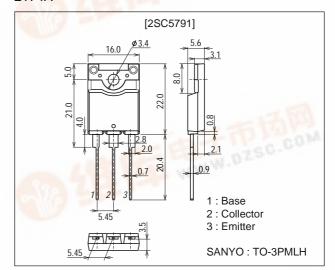
Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Features

- · High speed.
- High breakdown voltage(VCBO=1600V).
- · 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		1600	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		10	А
Collector Current (Pulse)	ICP	450 9 751	25	А
Collector Dissipation	De		3.0	W
	PC	Tc=25°C	80	W
Junction Temperature	Tj	L'III CAN	150	°C
Storage Temperature	Tstg	C. C.	-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	100		10	μΑ
	ICES	V _{CE} =1600V, R _{BE} =0	- T		1.0	mA
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	IC=10mA, RBE=∞	800	Total Williams	Dr.	V
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0			1.0	mA

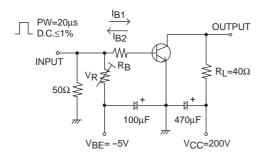
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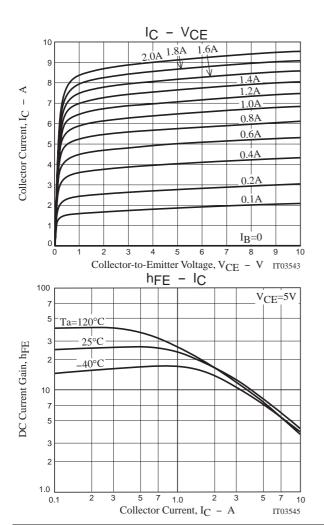
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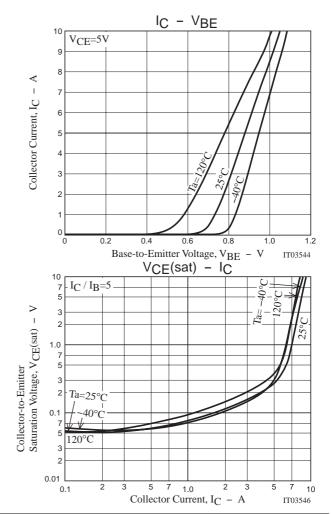
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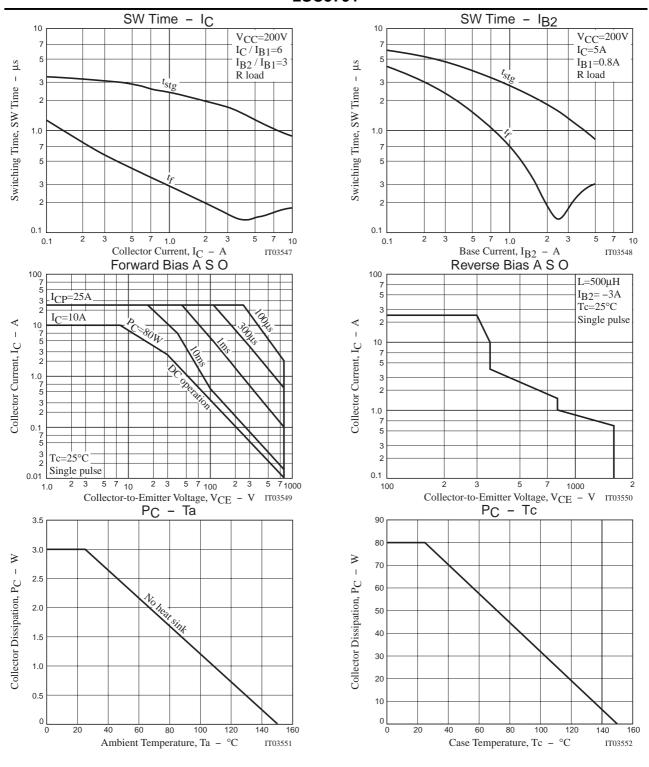
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	OIIII
DC Current Gain	hFE1	VCE=5V, IC=1A	10			
	hFE2	V _{CE} =5V, I _C =7A	4		7	
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	I _C =6.3A, I _B =1.6A			3	V
Base-to-Emitter Saturation Voltage	VBE(sat)	IC=6.3A, IB=1.6A			1.5	V
Storage Time	t _{stg}	I _C =5A, I _{B1} =0.8A, I _{B2} =-2.5A			3.0	μs
Fall Time	tf	I _C =5A, I _{B1} =0.8A, I _{B2} =-2.5A			0.2	μs

Switching Time Test Circuit









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