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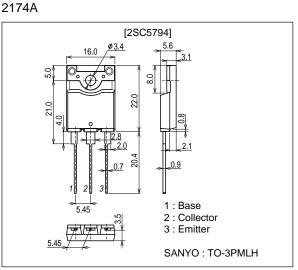
Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Features

- High speed.
- High breakdown voltage(VCBO=1600V).
- High reliability(Adoption of HVP process).
- · Adoption of MBIT process.

Package Dimensions

unit : mm



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		25	А
Collector Current (Pulse)	ICP		50	А
Collector Dissipation	D-		3.0	W
	PC	Tc=25°C	100	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	Unit
Collector Cutoff Current	Ісво	V _{CB} =800V, I _E =0			10	μA
	ICES	VCE=1600V, RBE=0			1.0	mA
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =10mA, R _{BE} =∞	800			V
Emitter Cutoff Current	IEBO	VEB=4V, IC=0			1.0	mA

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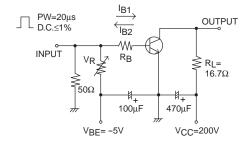
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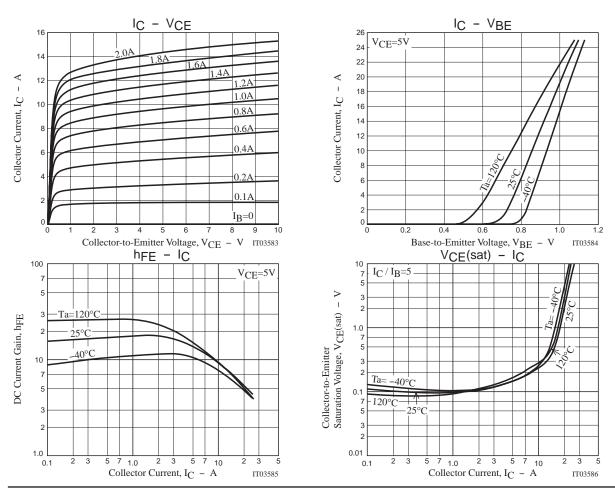
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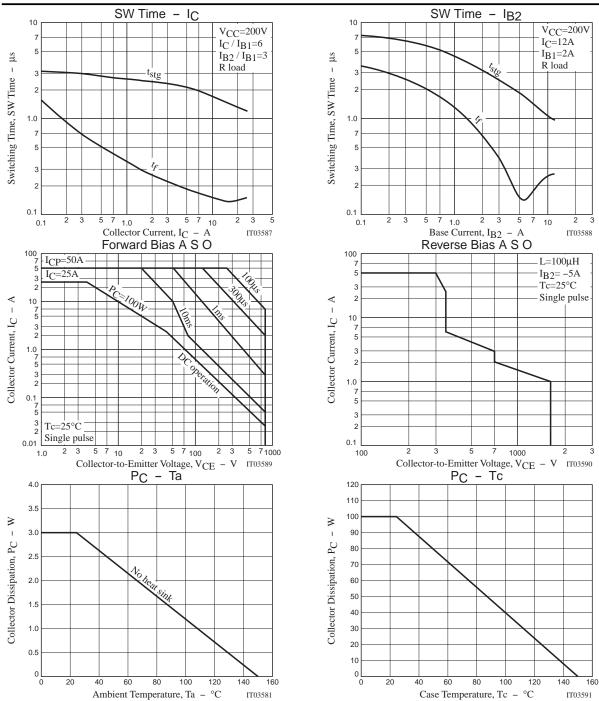
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
DC Current Gain	hFE1	VCE=5V, IC=1A	10			
	hFE2	V _{CE} =5V, I _C =18A	4		7	
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=16A, IB=4A			3	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	IC=16A, IB=4A			1.5	V
Storage Time	tstg	IC=12A, IB1=2A, IB2=-6A			3.0	μs
Fall Time	tf	I _C =12A, I _{B1} =2A, I _{B2} =-6A			0.2	μs

Switching Time Test Circuit







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