



2SC5899

Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

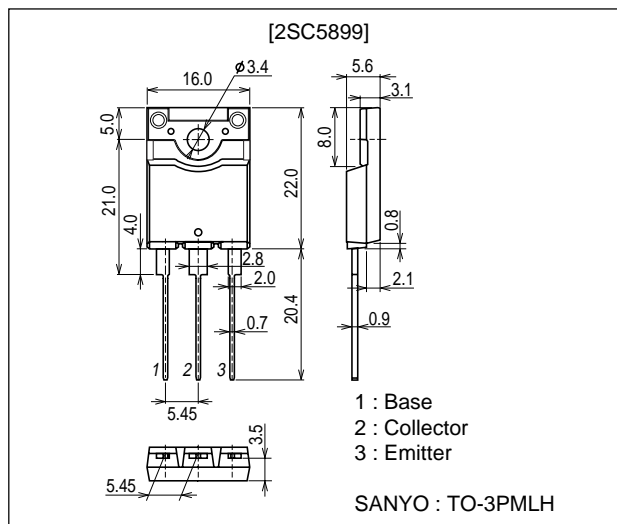
Features

- High speed.
- High breakdown voltage($V_{CB0}=1700V$).
- High reliability(Adoption of HVP process).
- Adoption of MBIT process.

Package Dimensions

unit : mm

2174A



Specifications

Absolute Maximum Ratings at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CB0}		1700	V
Collector-to-Emitter Voltage	V_{CEO}		800	V
Emitter-to-Base Voltage	V_{EBO}		5	V
Collector Current	I_C		15	A
Collector Current (Pulse)	I_{CP}		35	A
Collector Dissipation	P_C		3.0	W
		$T_c=25^\circ C$	95	W
Junction Temperature	T_J		150	$^\circ C$
Storage Temperature	T_{stg}		-55 to +150	$^\circ C$

Electrical Characteristics at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB}=800V, I_E=0$			10	μA
	I_{CES}	$V_{CE}=1700V, R_{BE}=0$			1.0	mA
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10mA, R_{BE}=\infty$	800			V
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4V, I_C=0$			1.0	mA

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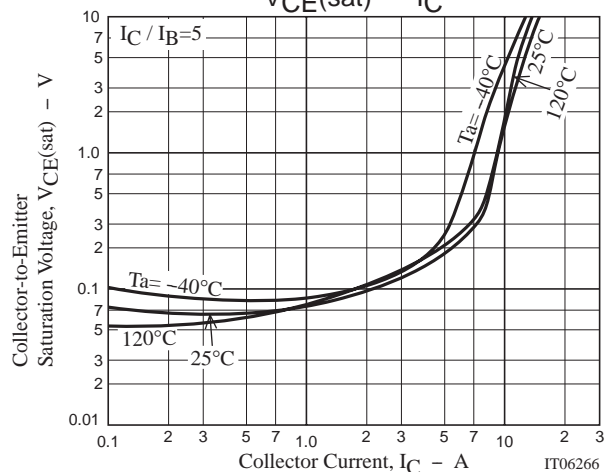
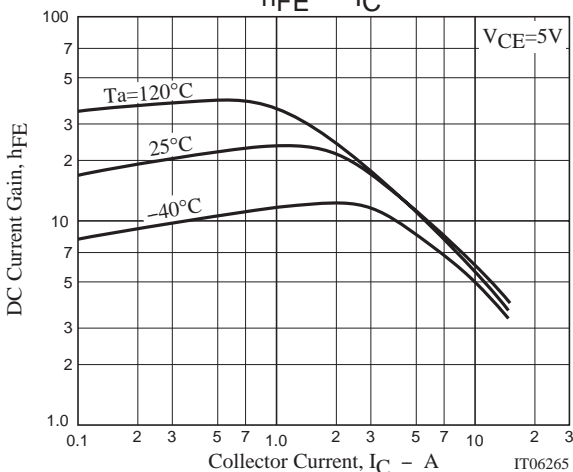
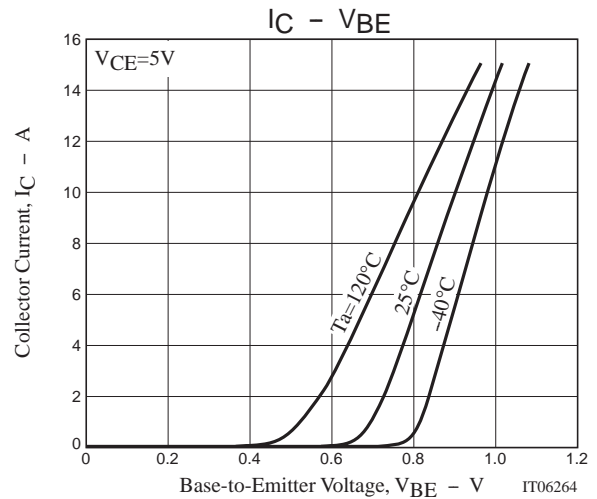
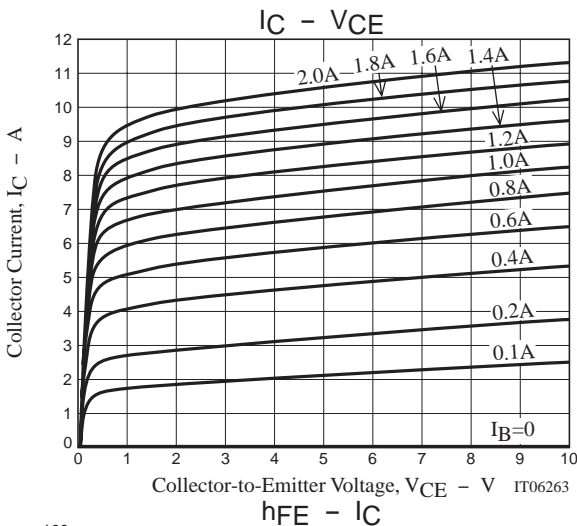
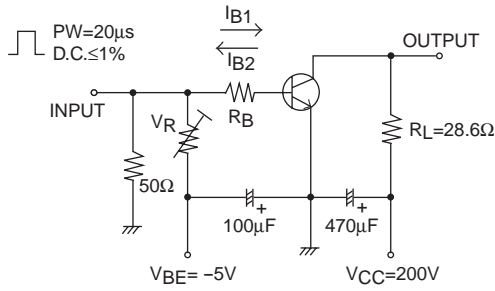
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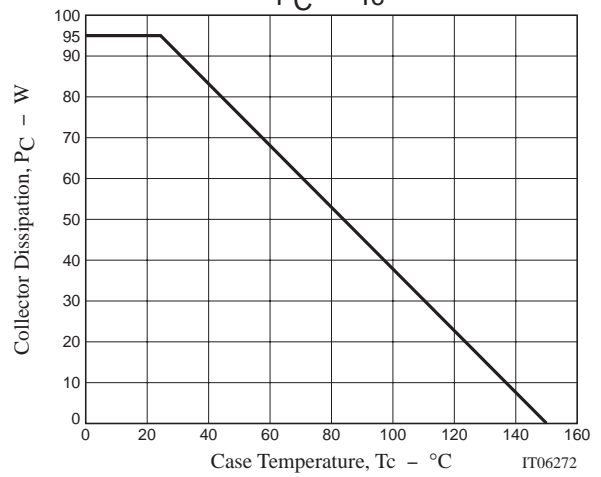
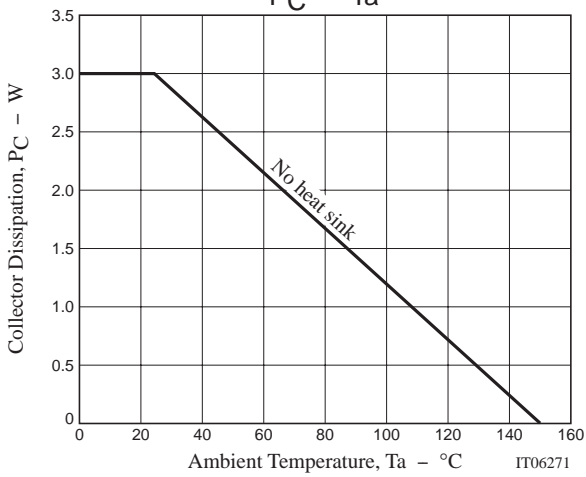
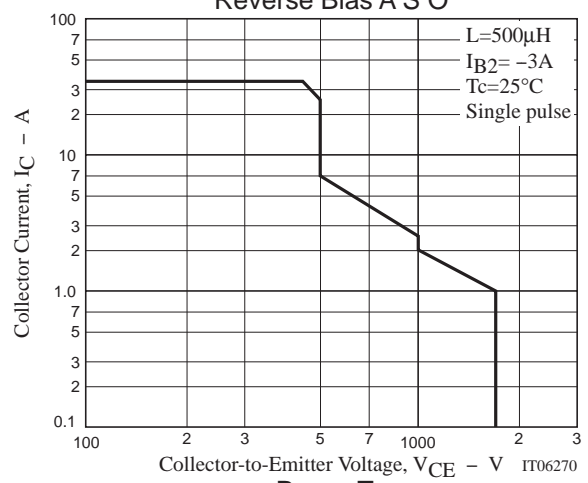
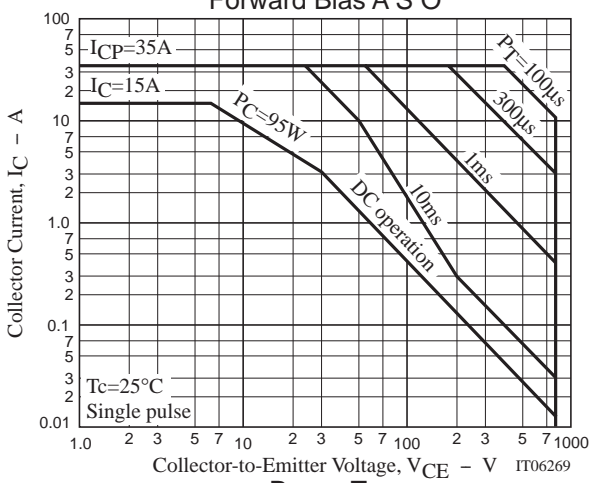
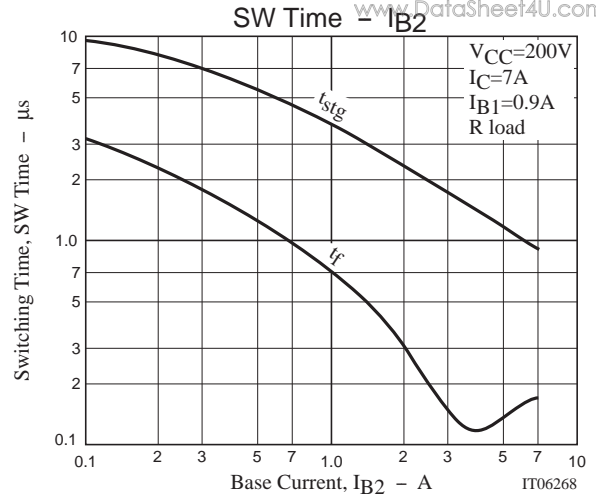
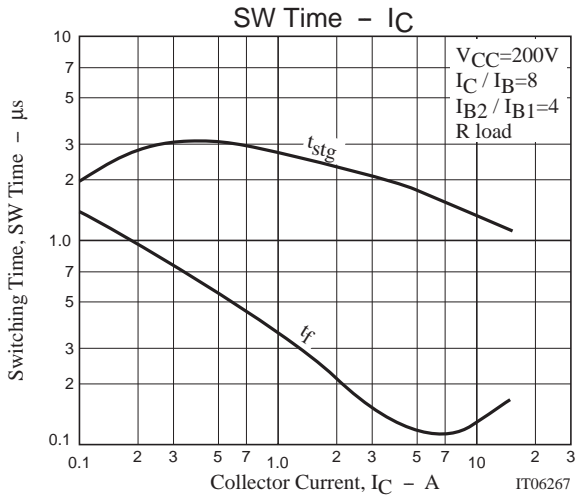
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
DC Current Gain	hFE1	VCE=5V, IC=1A	15			
	hFE2	VCE=5V, IC=11A	4		7	
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=10A, IB=2.5A			3	V
Base-to-Emitter Saturation Voltage	VBE(sat)	IC=10A, IB=2.5A			1.5	V
Storage Time	tstg	IC=7A, IB1=0.9A, IB2=-3.6A			3.0	μs
Fall Time	tf	IC=7A, IB1=0.9A, IB2=-3.6A			0.2	μs

Switching Time Test Circuit





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