



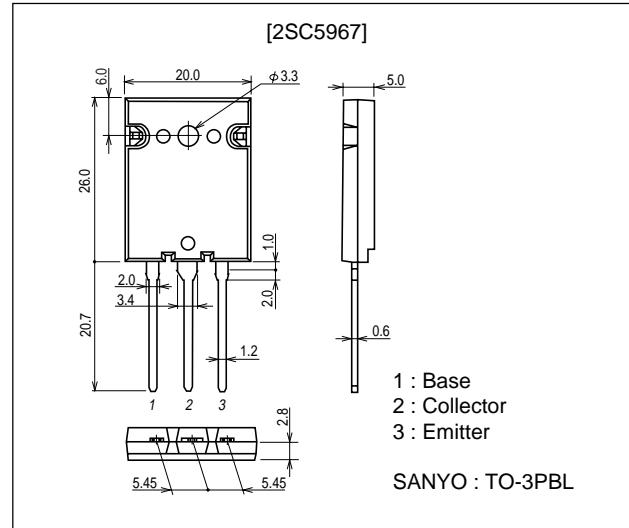
Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Features

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

Package Dimensions

unit : mm
2048B



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		20	A
Collector Current (Pulse)	I_{CP}		40	A
Collector Dissipation	P_C		3.5	W
		$T_c=25^\circ C$	180	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_{CB0}	$V_{CB}=800V, I_E=0$			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

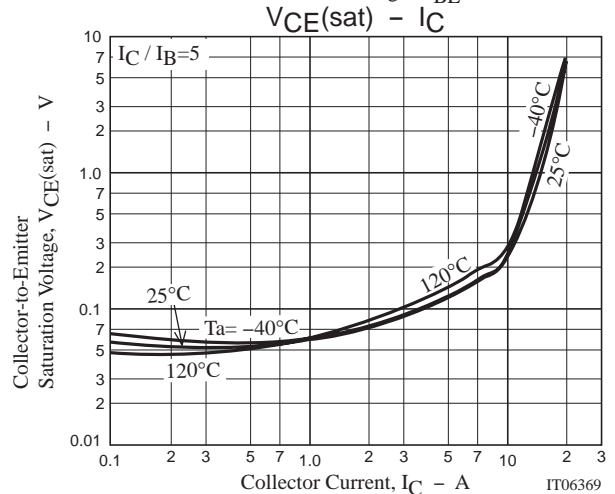
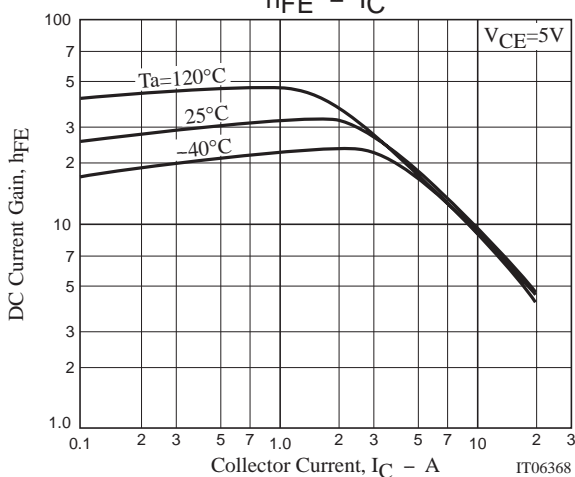
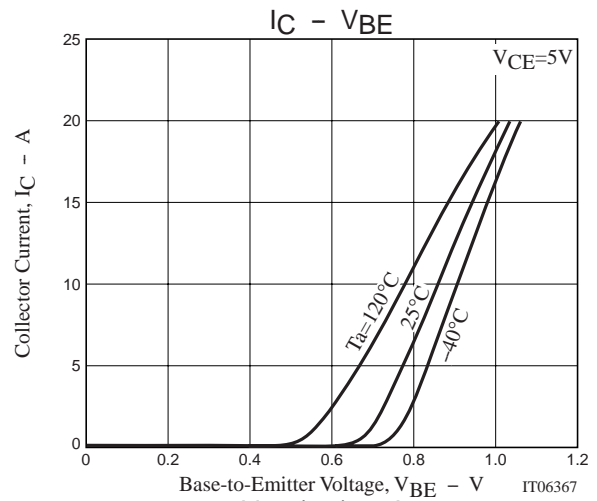
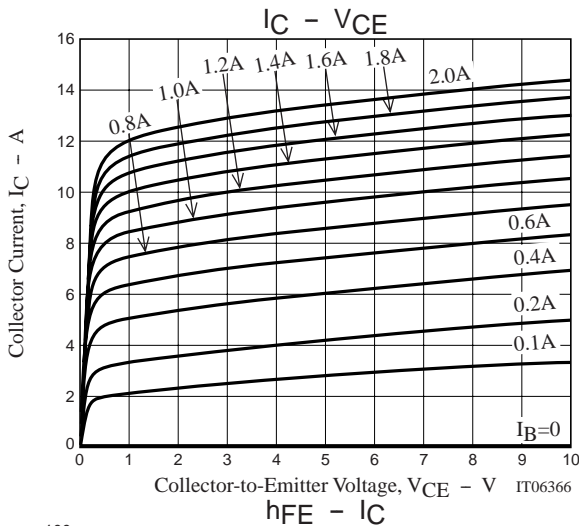
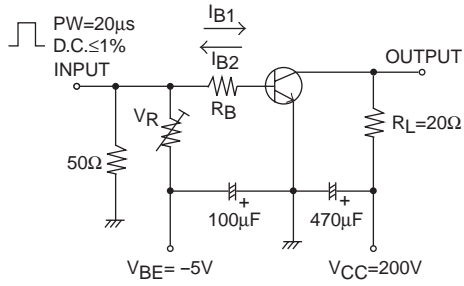
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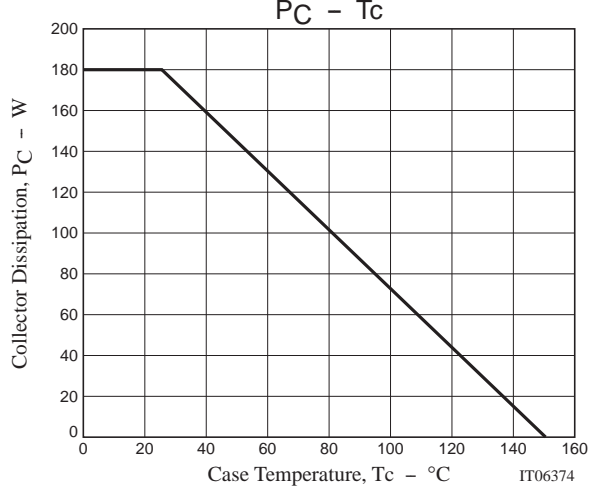
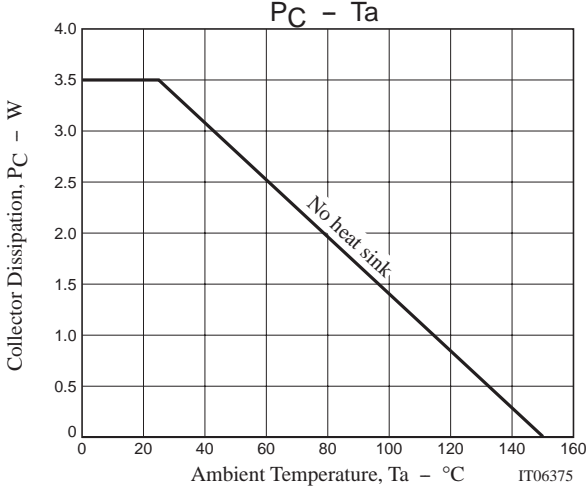
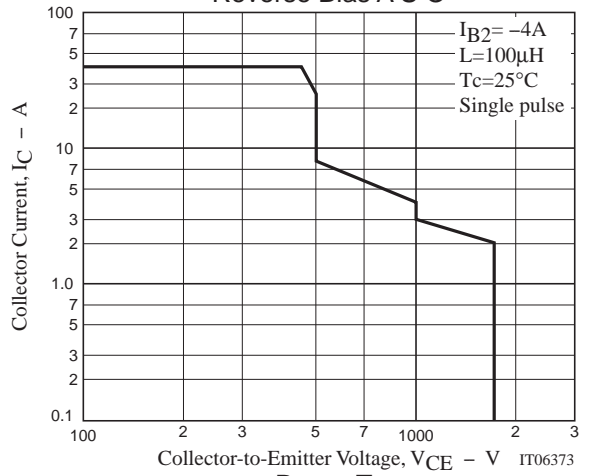
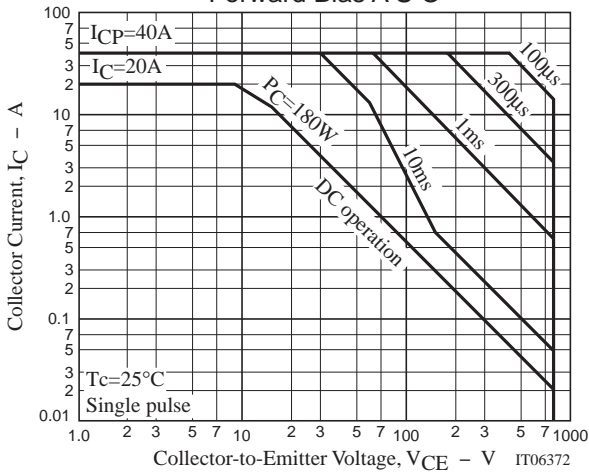
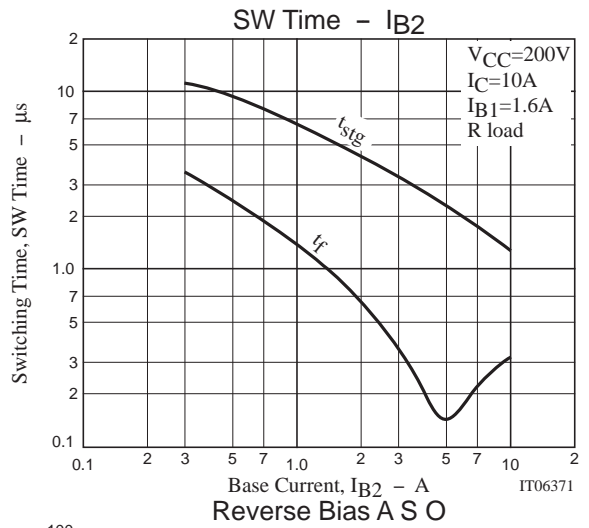
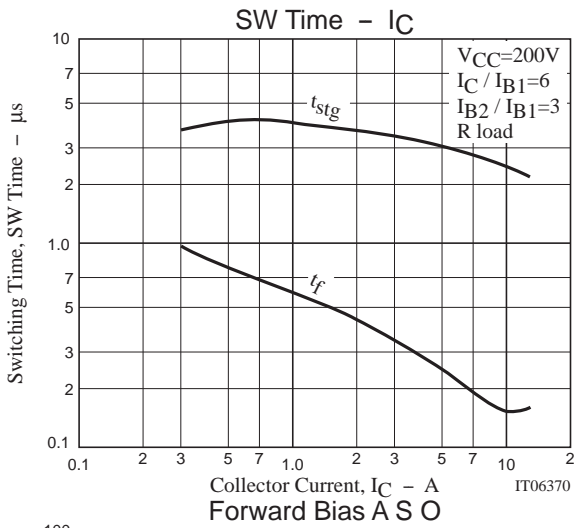
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
DC Current Gain	h_{FE1}	$V_{CE}=5V, I_C=1A$	15			
	h_{FE2}	$V_{CE}=5V, I_C=15A$	4		7	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=13.5A, I_B=3.4A$			3	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=13.5A, I_B=3.4A$			1.5	V
Storage Time	t_{stg}	$I_C=10A, I_{B1}=1.6A, I_{B2}=-5.0A$			3.0	μs
Fall Time	t_f	$I_C=10A, I_{B1}=1.6A, I_{B2}=-5.0A$			0.2	μs

Switching Time Test Circuit





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