

2SC5689



Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

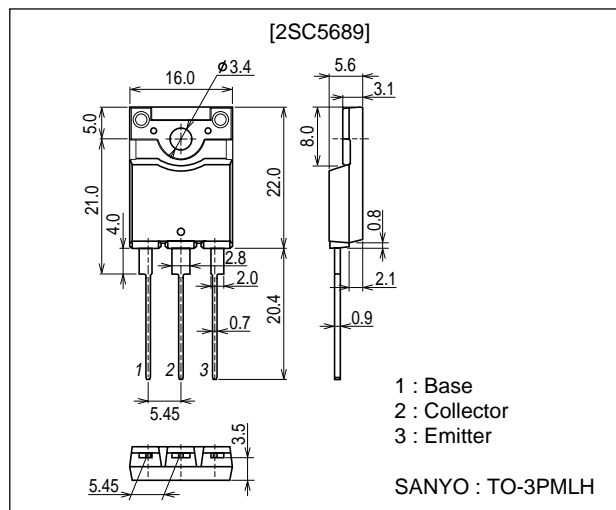
Features

- High speed.
- High breakdown voltage($V_{CB0}=1500V$).
- High reliability(Adoption of HVP process).
- Adoption of MBIT process.
- On-chip damper diode.

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}		1500	V
Collector-to-Emitter Voltage	V_{CE0}		800	V
Emitter-to-Base Voltage	V_{EB0}		5	V
Collector Current	I_C		10	A
Collector Current (Pulse)	I_{CP}		25	A
Collector Dissipation	P_C		3.0	W
		$T_c=25^{\circ}C$	80	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
Collector Cutoff Current	I_{CES}	$V_{CE}=1500V, R_{BE}=0$			1.0	mA
Collector Sustain Voltage	$V_{CE0(sus)}$	$I_C=100mA, I_B=0$	800			V
Emitter Cutoff Current	I_{EB0}	$V_{EB}=4V, I_C=0$	40		130	mA

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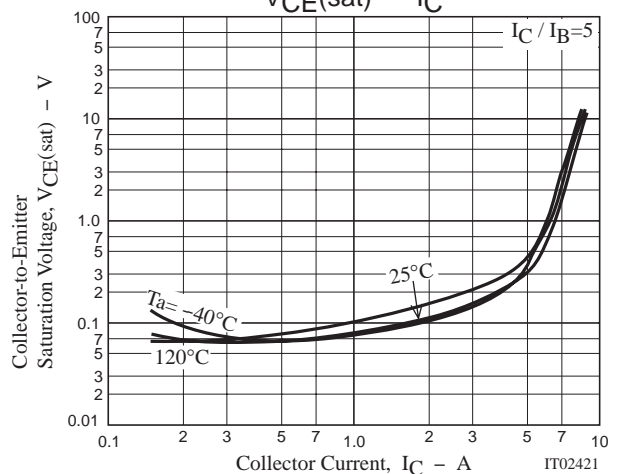
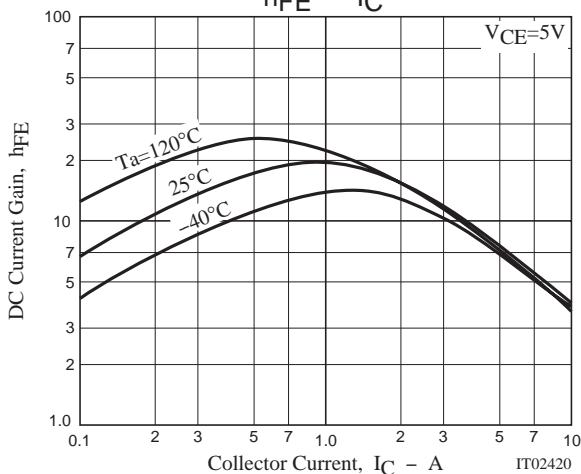
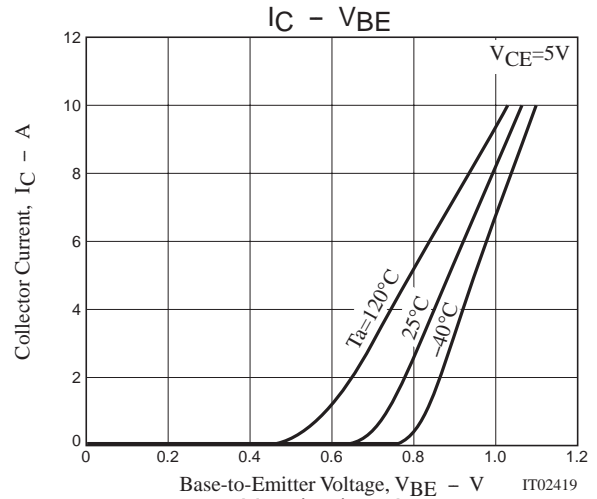
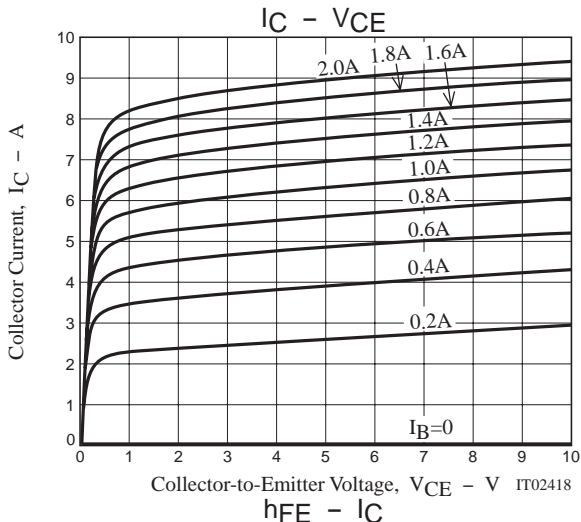
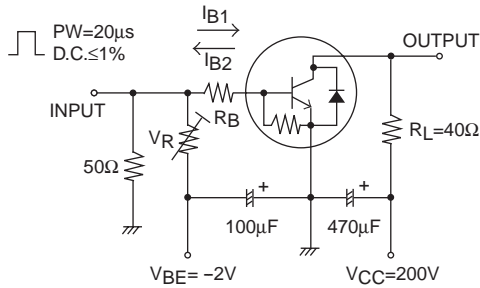
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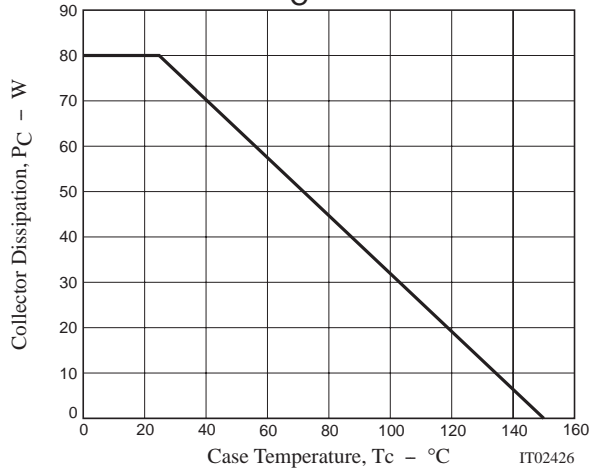
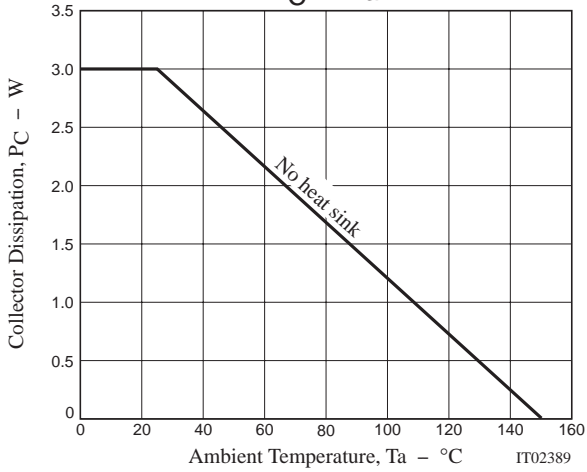
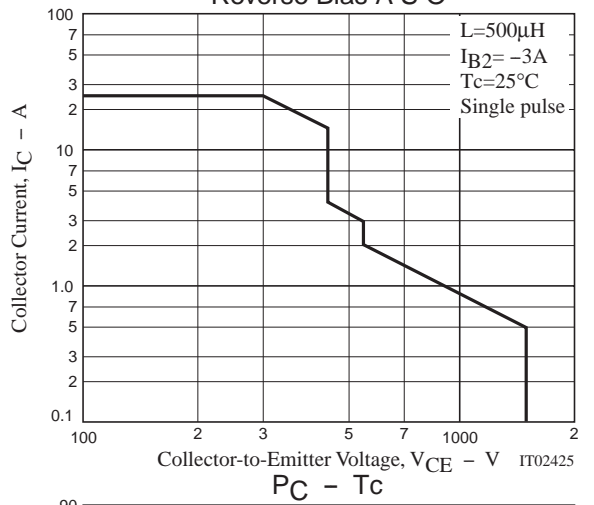
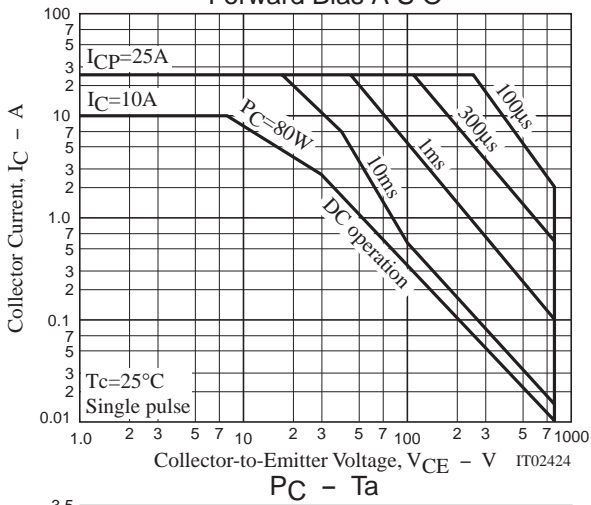
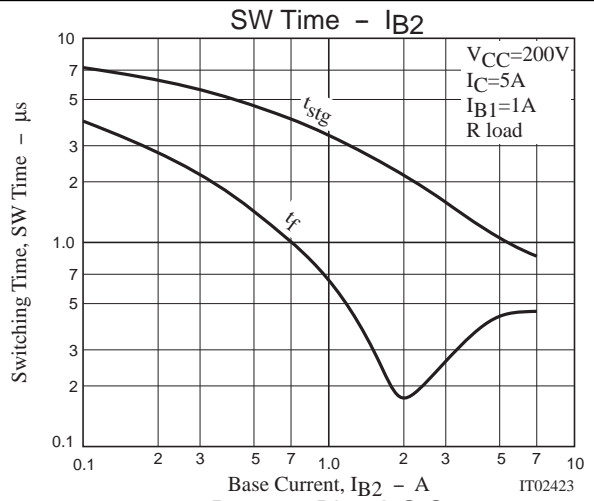
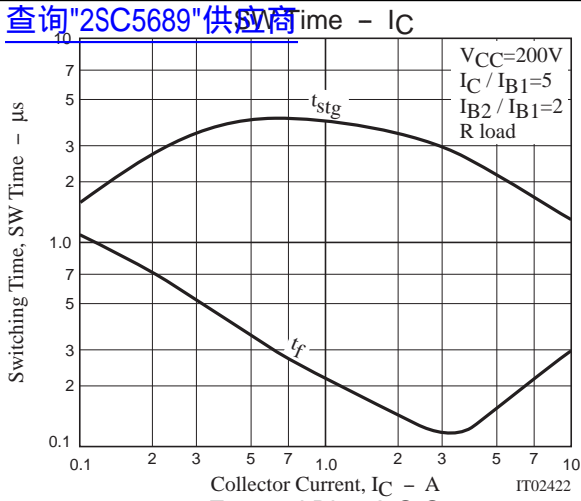
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
DC Current Gain	hFE1	VCE=5V, IC=1A	15			
	hFE2	VCE=5V, IC=8A	4		7	
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=7.2A, IB=1.8A			3	V
Base-to-Emitter Saturation Voltage	VBE(sat)	IC=7.2A, IB=1.8A			1.5	V
Diode Forward Voltage	VF	IEC=8A			2.0	V
Storage Time	tstg	IC=5A, IB1=1A, IB2=-2A			3.0	μs
Fall Time	tf	IC=5A, IB1=1A, IB2=-2A		0.1	0.2	μs

Switching Time Test Circuit



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