



2SC5778

Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

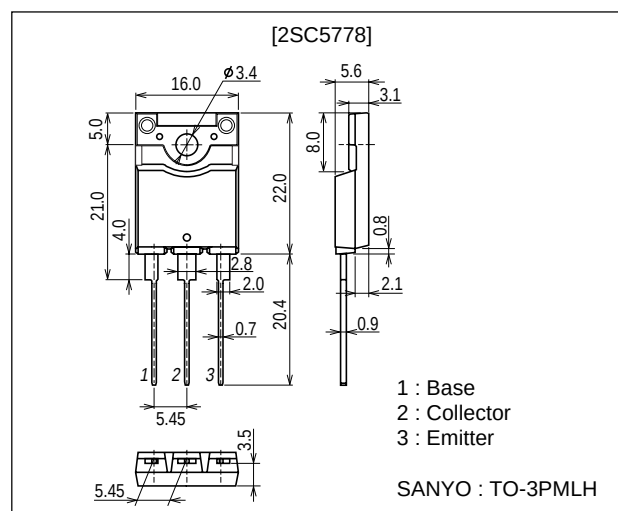
Features

- High speed.
- High breakdown voltage($V_{CBO}=1600V$).
- High reliability(Adoption of HVP process).
- Adoption of MBIT process.
- On-chip damper diode.

Package Dimensions

unit : mm

2174A



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CBO}		1600	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
		$T_c=25^{\circ}\text{C}$	85	W
Junction Temperature	T_j		150	$^{\circ}\text{C}$
Storage Temperature	T_{sta}		-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0			10	μA
	ICES	V _{CE} =1600V, R _{BE} =0			1.0	mA
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0	40		200	mA

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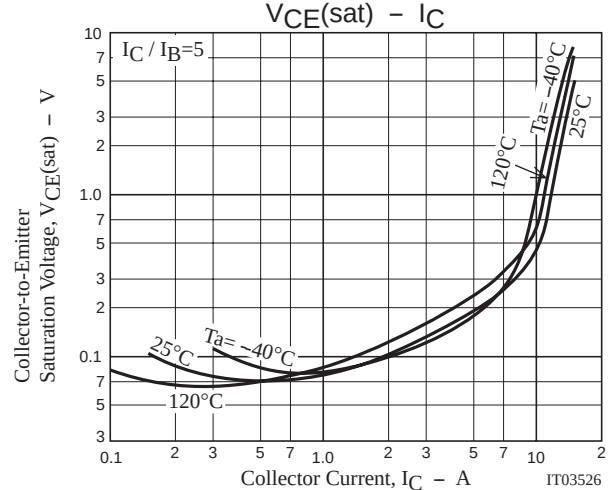
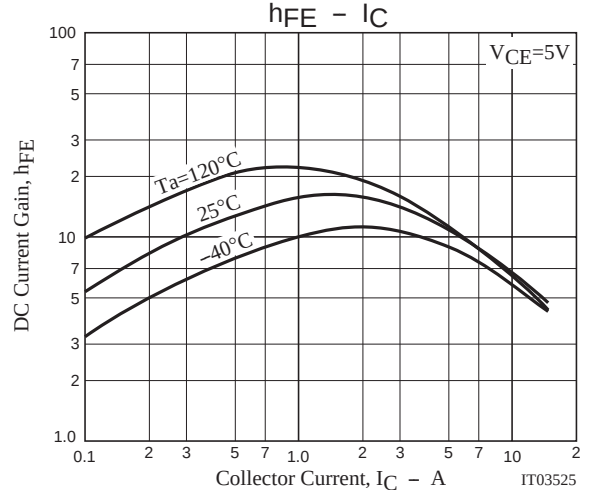
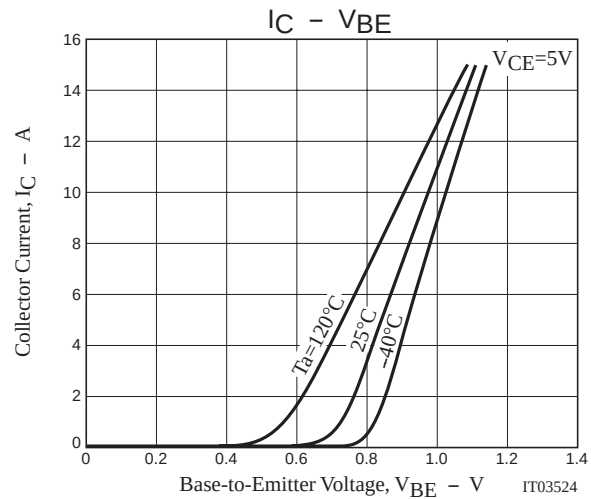
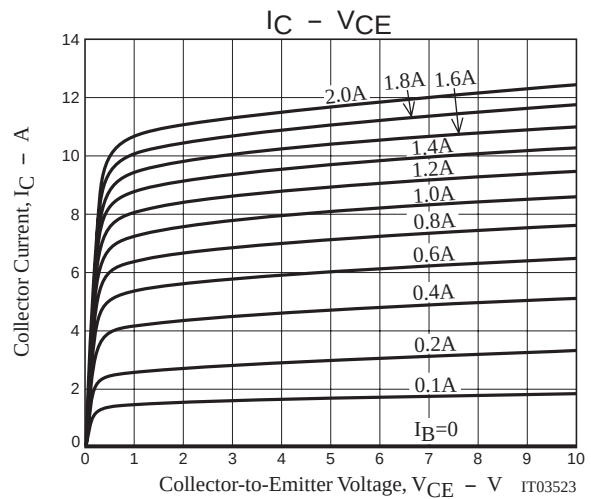
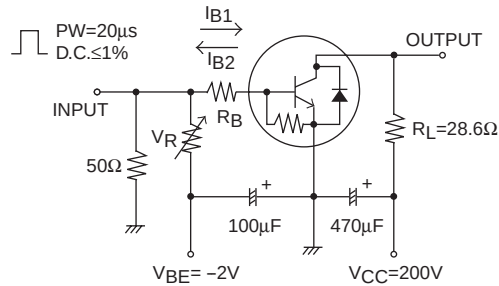
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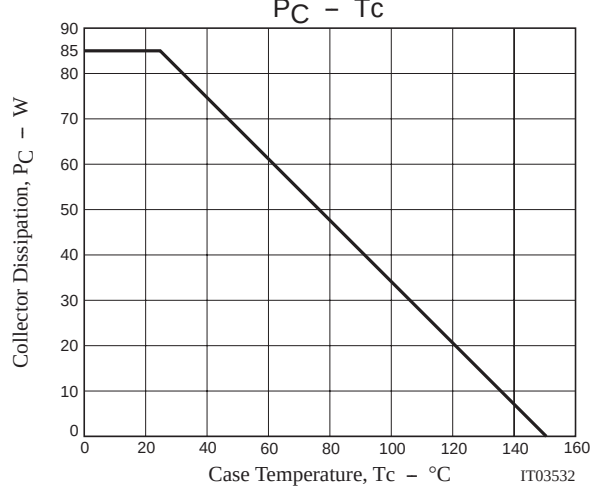
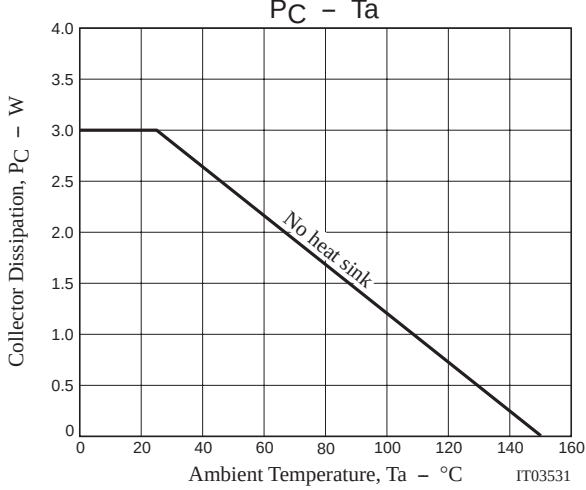
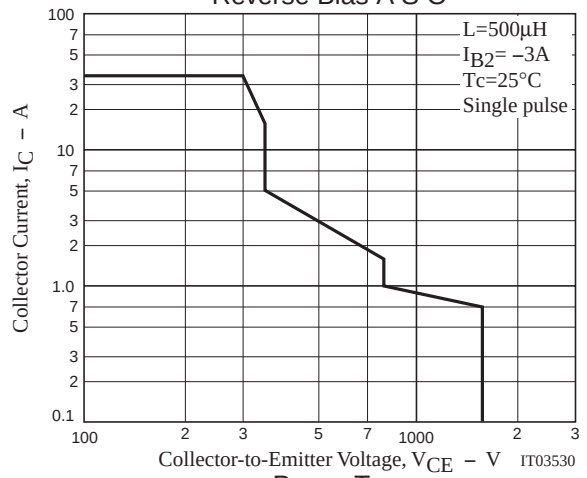
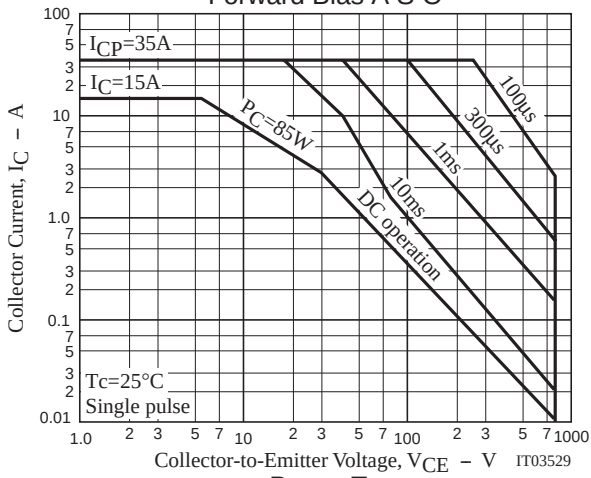
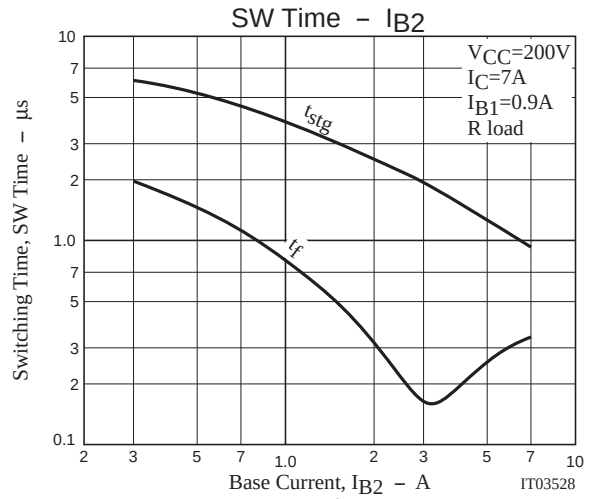
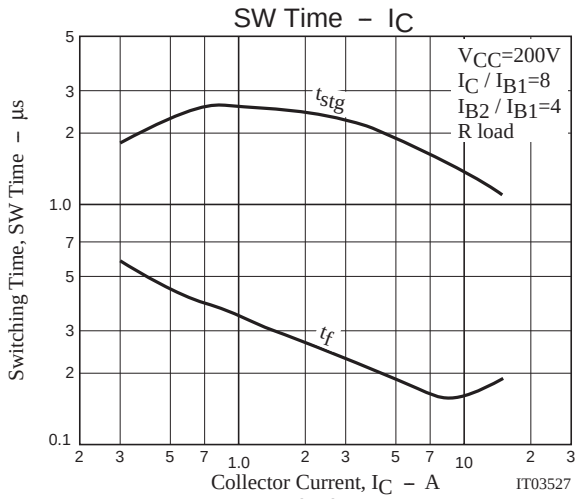
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
DC Current Gain	h_{FE1}	$V_{CE}=5V, I_C=1A$	8			
	h_{FE2}	$V_{CE}=5V, I_C=11A$	4		7	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10A, I_B=2.5A$			3.0	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=10A, I_B=2.5A$			1.5	V
Storage Time	t_{stg}	$I_C=7A, I_{B1}=0.9A, I_{B2}=-3.5A$			3.0	μs
Fall Time	t_f	$I_C=7A, I_{B1}=0.9A, I_{B2}=-3.5A$			0.2	μs
Diode Forward Voltage	V_F	$I_{EC}=12A$			2.2	V

Switching Time Test Circuit





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