



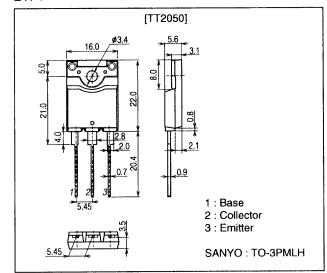
Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Features

- · High speed.
- · High breakdown voltage (VCBO=1500V).
- · High reliability (Adoption of HVP process).
- · Adoption of MBIT process.
- · On-chip damper diode.

Package Dimensions

unit : mm 2174



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	Vcво		1500	٧
Collector-to-Emitter Voltage	VCEO		800	٧
Emitter-to-Base Voltage	VEBO		5	٧
Collector Current	l _C		12	Α
Collector Current (Pulse)	ICP		25	Α
Collector Dissipation	PC		3.0	W
		Tc=25°C	80	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter		Conditions		Ratings		
	Symbol		min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0			10	μA
Collector Cutoff Current	ICES	VCE=1500V, RBE=0			1.0	mA
Collector Sustain Voltage	V _{CEO} (sus)	IC=100mA, IB=0	800			٧
Emitter Cutoff Current	EBO	VEB=4V, IC=0	40		130	mA

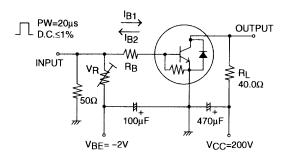
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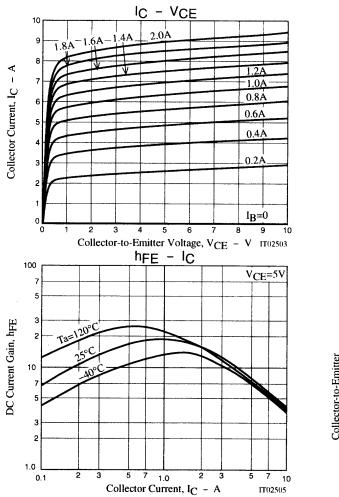
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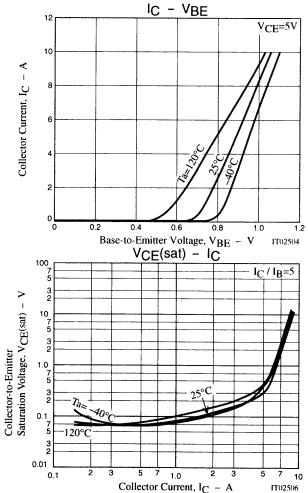
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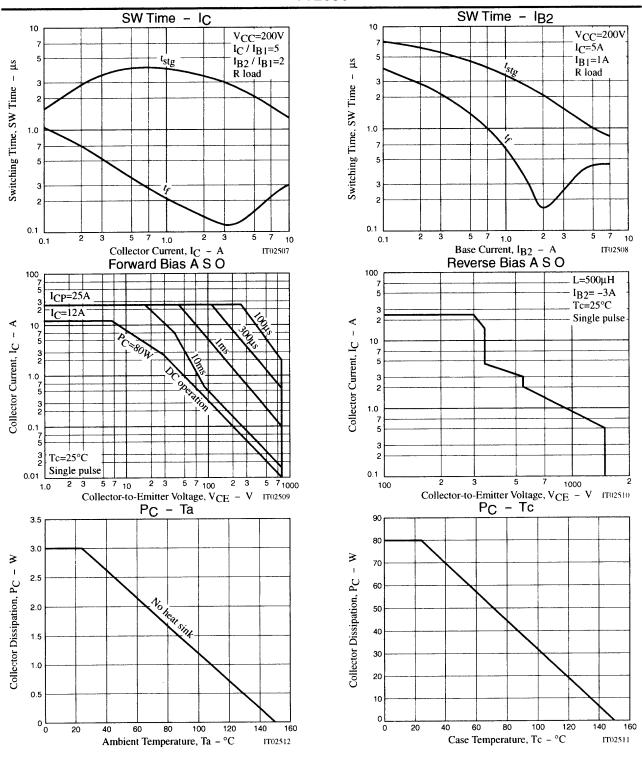
Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=7.2A, IB=1.8A			3	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	IC=7.2A, IB=1.8A			1.5	V
DC Current Gain	hFE(1)	V _{CE} =5V, I _C =1A	15			
	hFE(2)	VCE=5V, IC=8A	4		7	
Diode Forward Voltage	VF	I _{EC} =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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