

TT2054

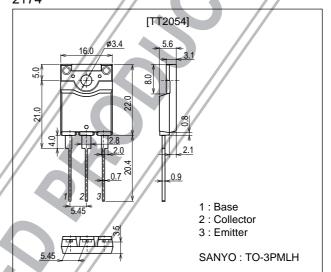
Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Features

- · High speed.
- High breakdown voltage (V_{CBO}=1500V).
- · High reliability (Adoption of HVP process).
- · Adoption of MBIT process.

Package Dimensions

unit : mm 2174



Specifications

Absolute Maximum Ratings at Ta=25°C

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

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	ICBO	VCB=800V, IE=0			10	μΑ
Collector Cutoff Current	ICES	V _{CE} =1500V, R _{BE} =0			1.0	mA
Collector Sustain Voltage	VCEO(sus)	IC=100mA, IB=0	800			V
Emitter Cutoff Current	JEBO	V _{EB} =4V, I _C =0			1.0	mA

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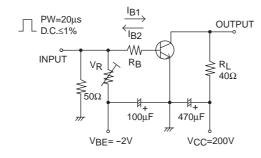
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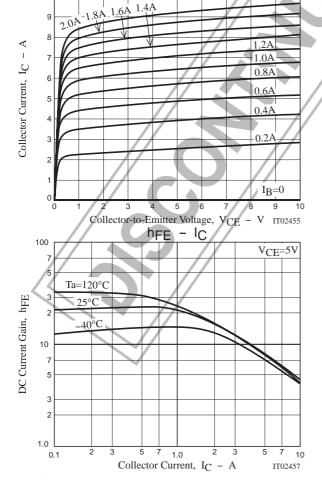
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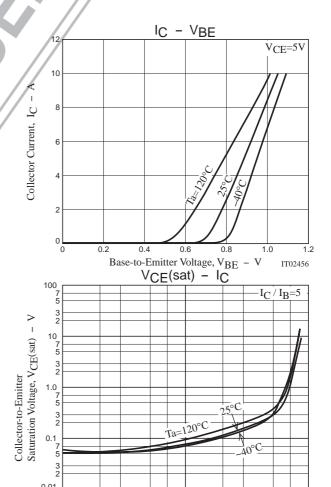
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	O TIIL
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	I _C =7.2A, I _B =1.8A			3	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =7.2A, I _B =1.8A			1.5	V
DC Current Gain	hFE1	VCE=5V, IC=1A	15			
	hFE2	V _{CE} =5V, I _C =8A	4		7	
Storage Time	tstg	I _C =5A, I _{B1} =1A, I _{B2} =2A		3.0	μs	
Fall Time	tf	IC=5A, IB1=1A, IB2=2A			0.2	μs

Switching Time Test Circuit



IC - VCE

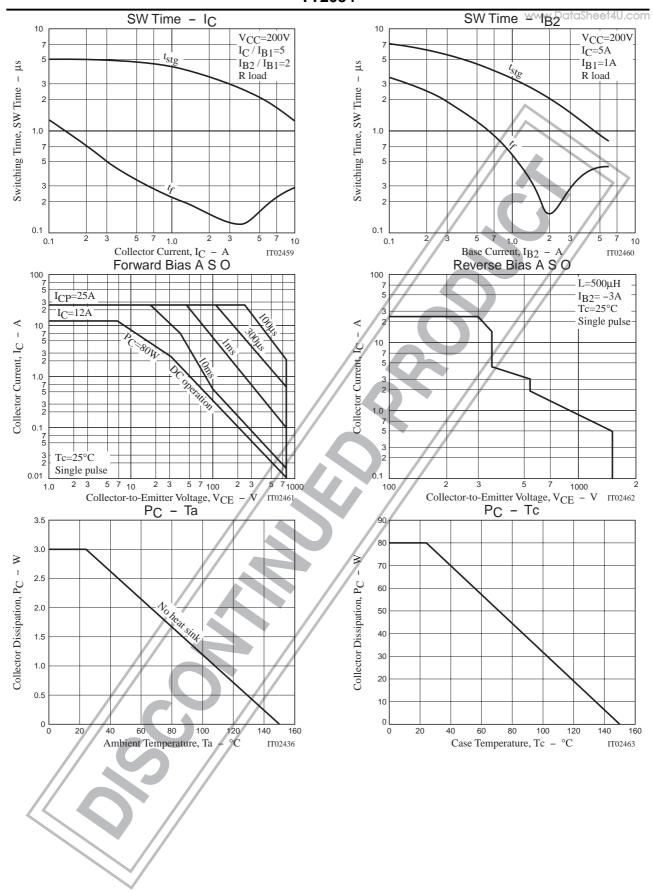




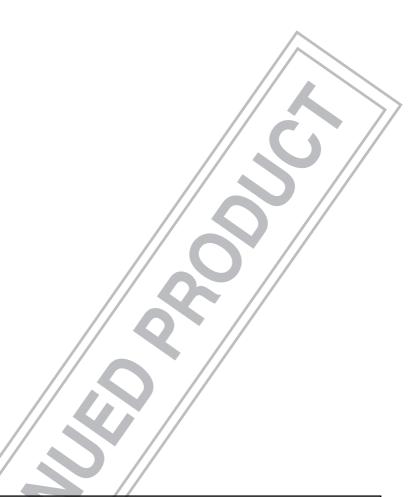
 5 7 $^{1.0}$ 2 3 Collector Current, I_{C} $^{-}$ A

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