

TT2050

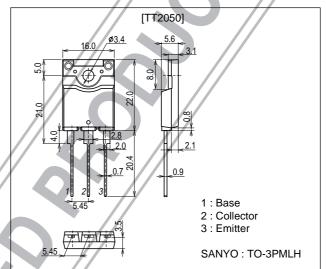
Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Features

- · High speed.
- High breakdown voltage (V_{CBO}=1500V).
- · High reliability (Adoption of HVP process).
- · Adoption of MBIT process.
- · 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	VCBO		1500	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	/Ic		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	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0			10	μΑ
Collector Cutoff Current	ICES	V _{CE} =1500V, R _{BE} =0			1.0	mA
Collector Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0	800			V
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0	40		130	mA

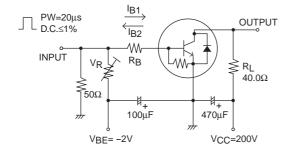
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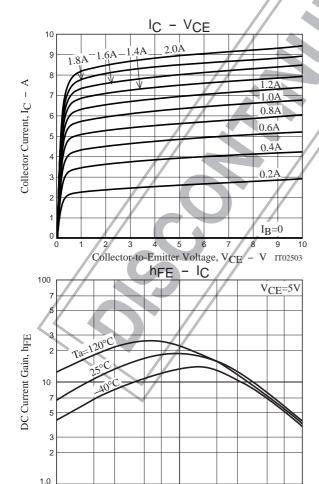
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector-to-Emitter Saturation Voltage	V _{CE} (sat)	I _C =7.2A, I _B =1.8A			3	٧
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =7.2A, I _B =1.8A			1.5	V
DC Current Gain	hFE(1)	V _{CE} =5V, I _C =1A	15	/		
	hFE(2)	V _{CE} =5V, I _C =8A	4		7	
Diode Forward Voltage	VF	IEC=8A			2.0	V
Storage Time	tstg	IC=5A, IB1=1A, IB2=-2A			3.0	μs
Fall Time	tf	I _C =5A, I _{B1} =1A, I _{B2} =-2A		0.1	0.2	μs

Switching Time Test Circuit

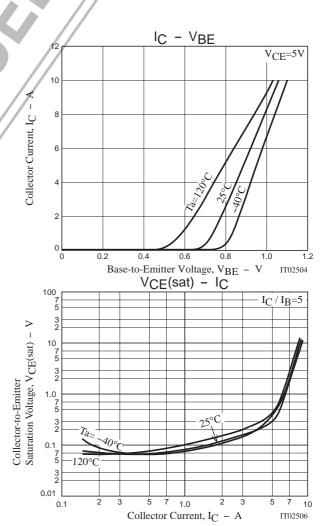


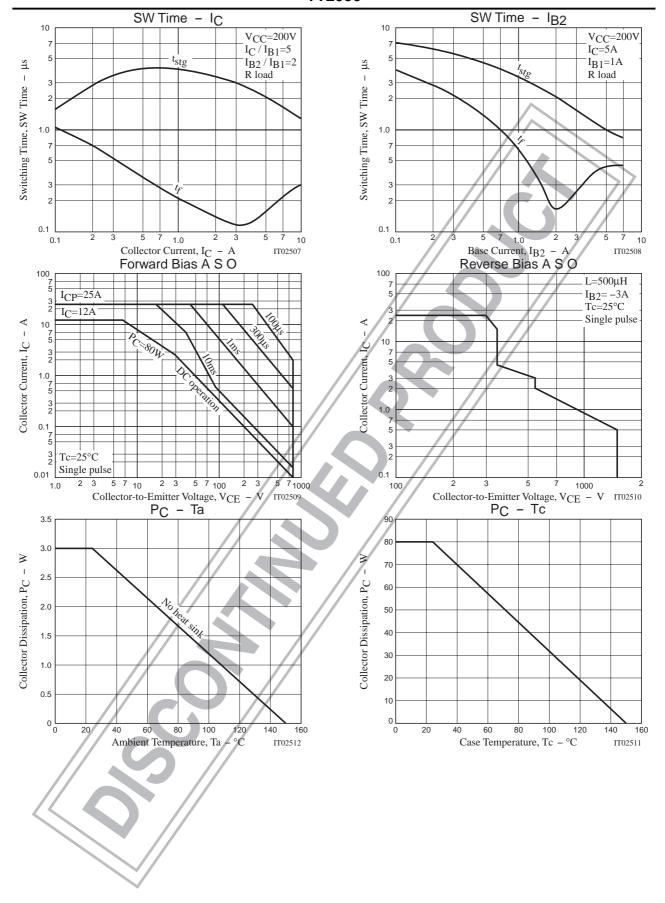


1.0

Collector Current, $I_C - A$

IT02505







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