



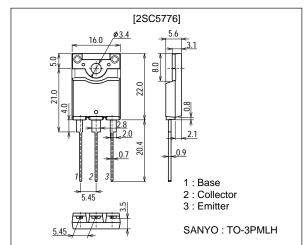
Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

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	VCBO		1600	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		8	Α
Collector Current (Pulse)	ICP		16	Α
Collector Dissipation	Do		3.0	W
	PC	Tc=25°C	65	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	ІСВО	V _{CB} =800V, I _E =0			10	μΑ
	ICES	VCE=1600V, RBE=0			1.0	mA
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0	40		200	mA

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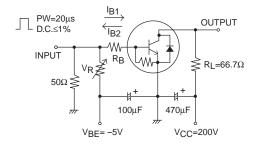
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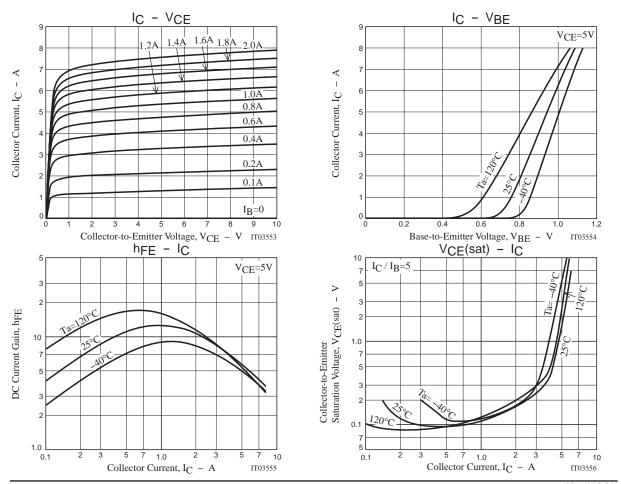
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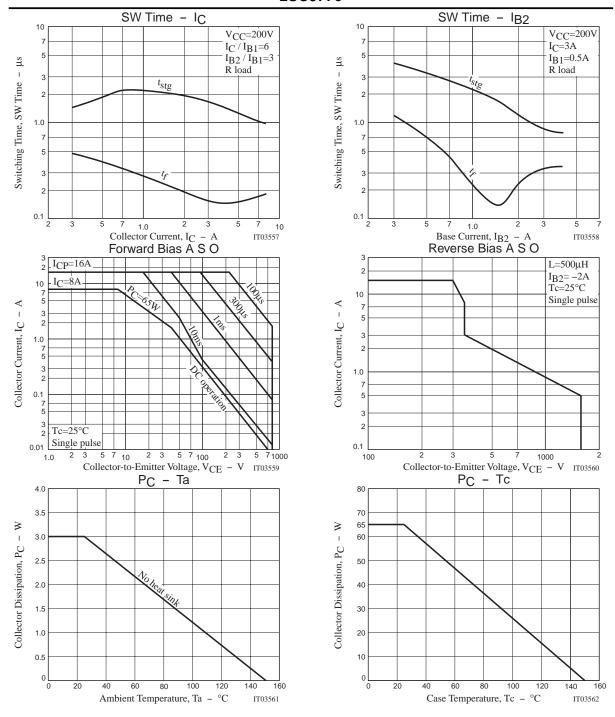
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
DC Current Gain	hFE1	VCE=5V, IC=1A	8			
	hFE2	V _{CE} =5V, I _C =4.5A	4		7	
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=4A, IB=1A			3.0	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =4A, I _B =1A			1.5	V
Storage Time	tstg	IC=3A, IB1=0.5A, IB2=-1.5A			3.0	μs
Fall Time	tf	I _C =3A, I _{B1} =0.5A, I _{B2} =-1.5A			0.2	μs
Diode Forward Voltage	٧F	IEC=6.5A			2.2	V

Switching Time Test Circuit







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