

2SC5967

# Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

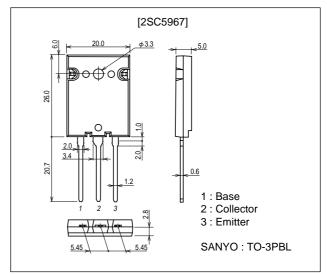
# **Features**

- · High-speed.
- High breakdown voltage (V<sub>CBO</sub>=1700V).
- High reliability (Adoption of HVP process).

www.DataSheet4U.coAdoption of MBIT process.

### **Package Dimensions**

unit : mm 2048B



# **Specifications**

# Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1700	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		20	Α
Collector Current (Pulse)	ICP		40	Α
Collector Dissipation	Do		3.5	W
	PC	Tc=25°C	180	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	Oill
Collector Cutoff Current	ІСВО	V <sub>CB</sub> =800V, I <sub>E</sub> =0			10	μΑ
	ICES	V <sub>CE</sub> =1700V, R <sub>BE</sub> =0			1.0	mA
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	IC=10mA, RBE=∞	800			V
Emitter Cutoff Current	IEBO	V <sub>EB</sub> =4V, I <sub>C</sub> =0			1.0	mA

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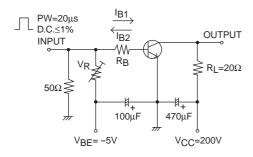
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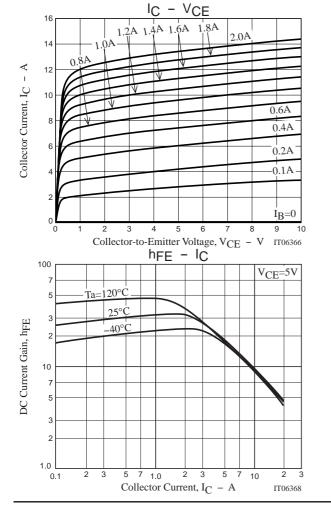
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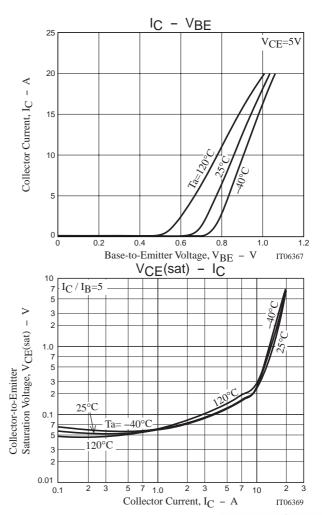
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
DC Current Gain	hFE1	V <sub>CE</sub> =5V, I <sub>C</sub> =1A	15			
	hFE2	V <sub>CE</sub> =5V, I <sub>C</sub> =15A	4		7	
Collectoe-to-Emitter Saturation Voltage	VCE(sat)	IC=13.5A, IB=3.4A			3	V
Base-to-Emitter Saturation Voltage	V <sub>BE</sub> (sat)	I <sub>C</sub> =13.5A, I <sub>B</sub> =3.4A			1.5	V
Storage Time	tstg	I <sub>C</sub> =10A, I <sub>B1</sub> =1.6A, I <sub>B2</sub> =-5.0A			3.0	μs
Fall Time	tf	IC=10A, I <sub>B1</sub> =1.6A, I <sub>B2</sub> =-5.0A			0.2	μs

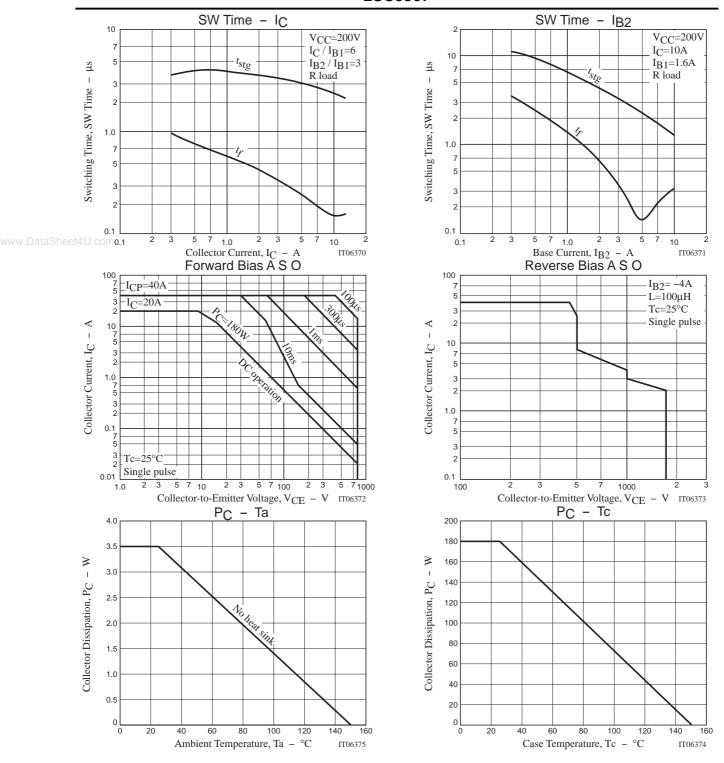
# **Switching Time Test Circuit**

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