

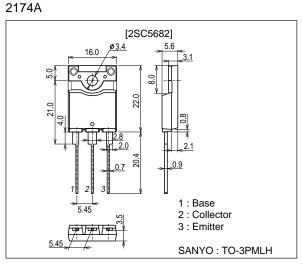
2SC5682 Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Features

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

Package Dimensions

unit : mm



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 | | 20 | А |
| Collector Current (Pulse) | ICP | | 40 | А |
| Collector Dissipation | PC | | 3.0 | W |
| | | Tc=25°C | 95 | 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 | Onic |
| 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) | IC=100mA, IB=0 | 800 | | | V |
| Emitter Cutoff Current | IEBO | V _{EB} =4V, I _C =0 | | | 1.0 | mA |

Continued on next page.

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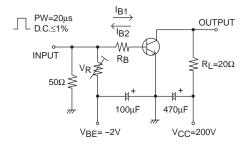
SANYO Electric Co., Ltd. Semiconductor Company TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

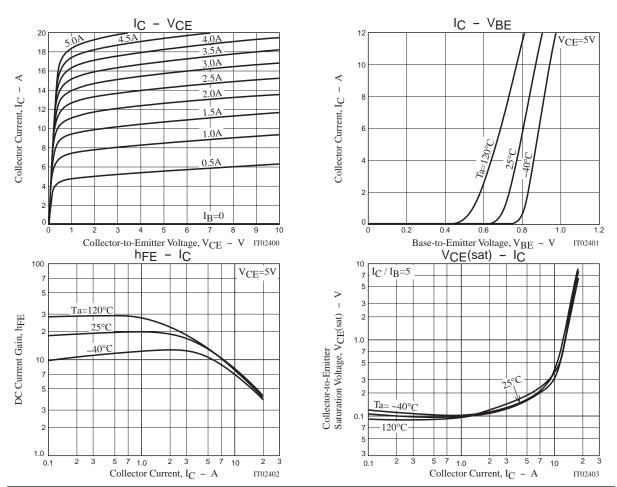
42501 TS IM TA-3147 / 71400 TS IM TA-2891 No.6608-1/4

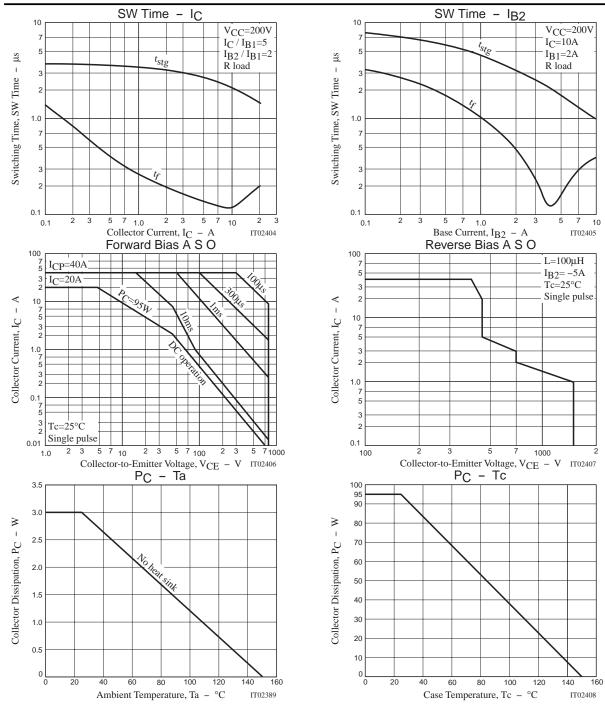
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| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---|-----------------------|--|---------|-----|-----|------|
| | | | min | typ | max | Unit |
| DC Current Gain | hFE1 | V _{CE} =5V, I _C =1A | 15 | | | |
| | hFE2 | V _{CE} =5V, I _C =16A | 4 | | 7 | |
| Collector-to-Emitter Saturation Voltage | VCE(sat) | IC=14.4A, IB=3.6A | | | 3 | V |
| Base-to-Emitter Saturation Voltage | V _{BE} (sat) | I _C =14.4A, I _B =3.6A | | | 1.5 | V |
| Storage Time | tstg | IC=10A, IB1=2A, IB2=-4A | | | 3.0 | μs |
| Fall Time | tf | I _C =10A, I _{B1} =2A, I _{B2} =-4A | | | 0.2 | μs |

Switching Time Test Circuit







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