

**2SC5682**

## Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

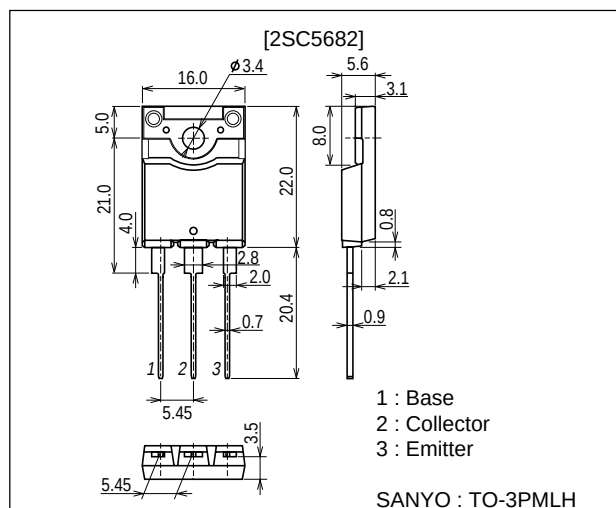
### Features

- High speed.
- High breakdown voltage( $V_{CB0}=1500V$ ).
- High reliability(Adoption of HVP process).
- Adoption of MBIT process.

### Package Dimensions

unit : mm

2174A



### Specifications

Absolute Maximum Ratings at  $T_a=25^\circ C$ 

| Parameter                    | Symbol    | Conditions       | Ratings     | Unit       |
|------------------------------|-----------|------------------|-------------|------------|
| Collector-to-Base Voltage    | $V_{CB0}$ |                  | 1500        | V          |
| Collector-to-Emitter Voltage | $V_{CEO}$ |                  | 800         | V          |
| Emitter-to-Base Voltage      | $V_{EBO}$ |                  | 5           | V          |
| Collector Current            | $I_C$     |                  | 20          | A          |
| Collector Current (Pulse)    | $I_{CP}$  |                  | 40          | A          |
| Collector Dissipation        | $P_C$     |                  | 3.0         | W          |
|                              |           | $T_c=25^\circ C$ | 95          | W          |
| Junction Temperature         | $T_J$     |                  | 150         | $^\circ C$ |
| Storage Temperature          | $T_{stg}$ |                  | -55 to +150 | $^\circ C$ |

Electrical Characteristics at  $T_a=25^\circ C$ 

| Parameter                 | Symbol         | Conditions               | Ratings |     |     | Unit    |
|---------------------------|----------------|--------------------------|---------|-----|-----|---------|
|                           |                |                          | min     | typ | max |         |
| Collector Cutoff Current  | $I_{CBO}$      | $V_{CB}=800V, I_E=0$     |         |     | 10  | $\mu A$ |
| Collector Cutoff Current  | $I_{CES}$      | $V_{CE}=1500V, R_{BE}=0$ |         |     | 1.0 | mA      |
| Collector Sustain Voltage | $V_{CEO(sus)}$ | $I_C=100mA, I_B=0$       | 800     |     |     | V       |
| Emitter Cutoff Current    | $I_{EBO}$      | $V_{EB}=4V, I_C=0$       |         |     | 1.0 | mA      |

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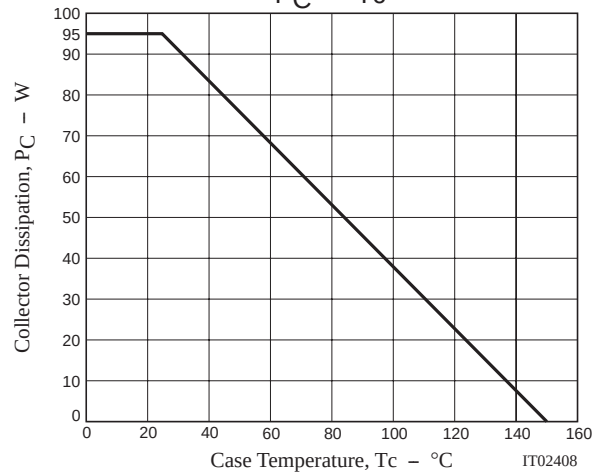
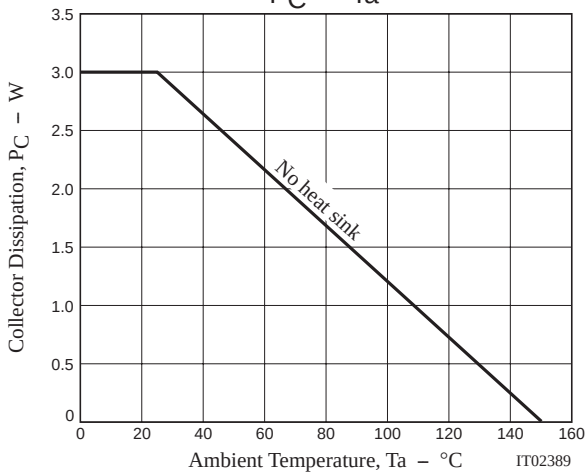
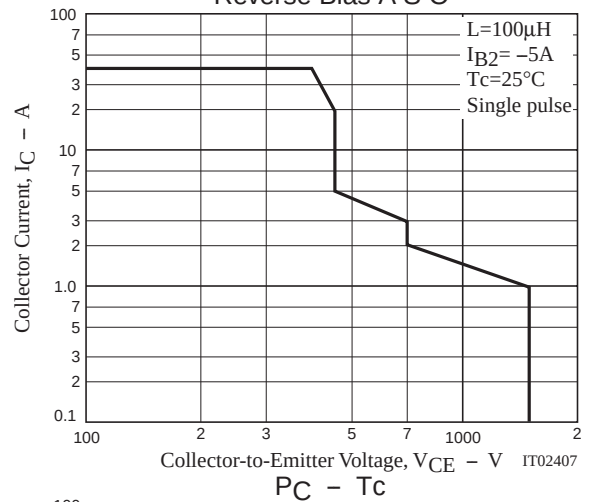
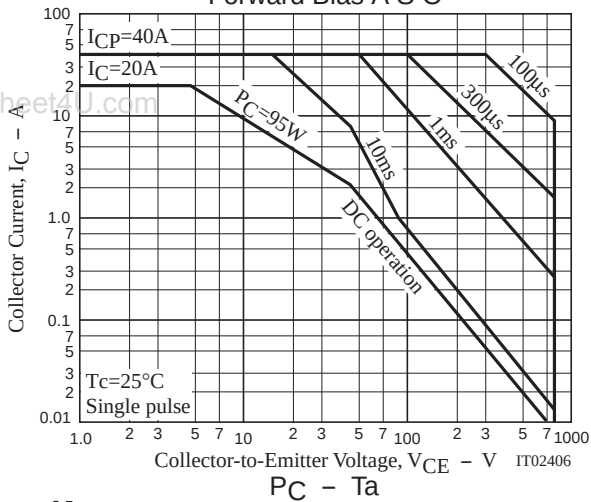
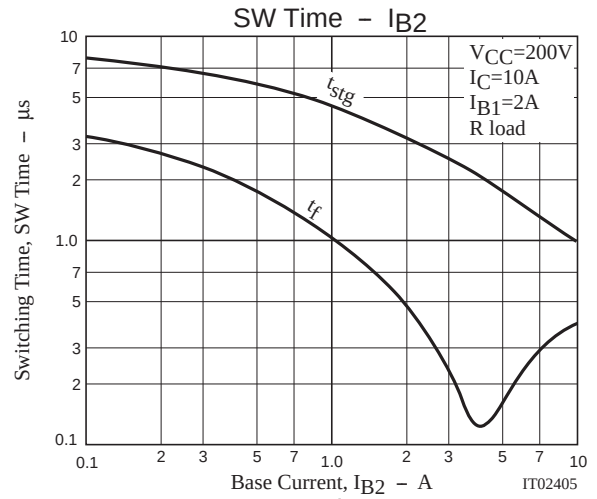
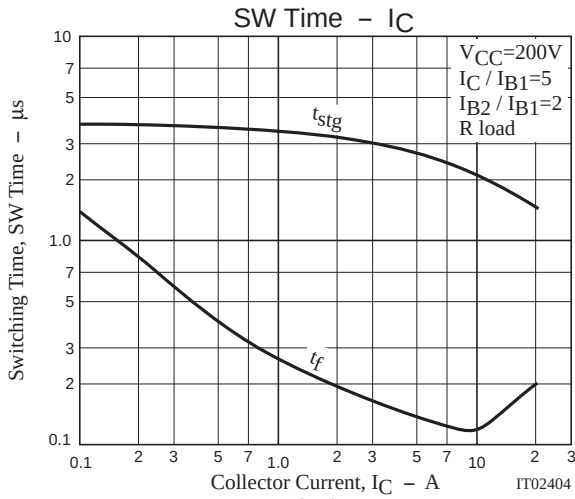
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