2SC3995



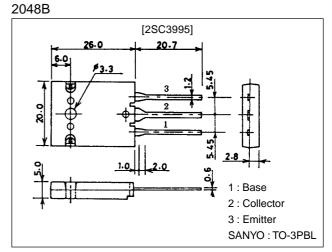
Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

Features

- · High speed (t_f =100ns typ).
- \cdot High reliability (adoption of HVP process).
- · High breakdown voltage (V_{CBO} =1500V).
- · 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 | V _{CBO} | | 1500 | V |
| Collector-to-Emitter Voltage | VCEO | | 800 | V |
| Emitter-to-Base Voltage | VEBO | | 6 | V |
| Collector Current | ι _C | | 12 | A |
| Collector Current (Pulse) | I _{CP} | | 30 | A |
| Collector Dissipation | PC | Tc=25°C | 180 | W |
| Junction Temperature | Tj | | 150 | °C |
| Storage Temperature | Tstg | | -55 to +150 | °C |

Electrical Characteristics at Ta = 25°C

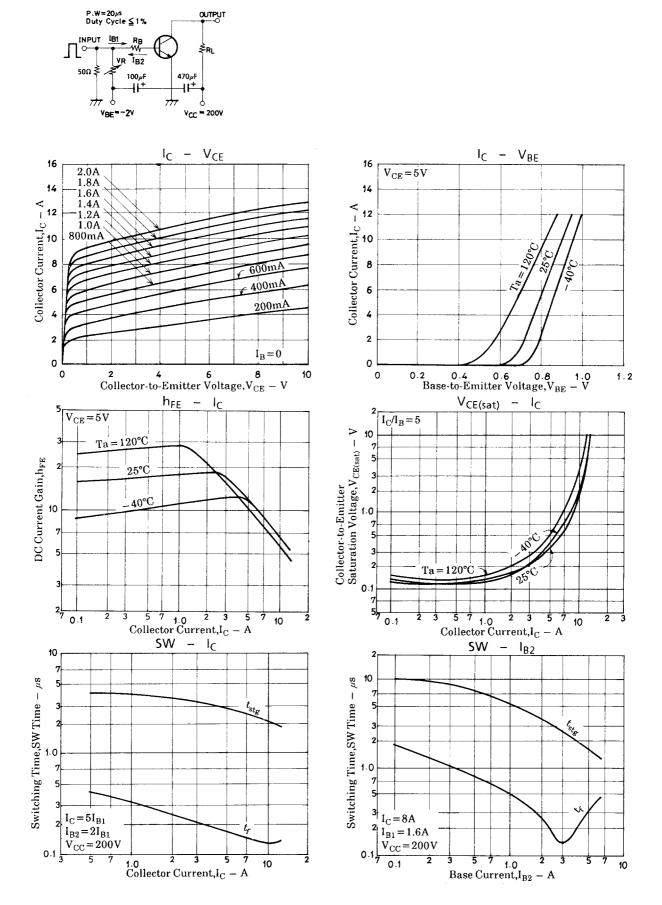
| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---|----------------------|---|---------|-----|-----|------|
| | | | min | typ | max | Unit |
| Collector Cutoff Current | ICBO | V _{CB} =800V, I _E =0 | | | 10 | μA |
| | ICES | V _{CE} =1500V, R _{BE} =0 | | | 1.0 | mA |
| Collector-to-Emitter Sastain Voltage | VCEO(sus) | I _C =100mA, I _B =0 | 800 | | | V |
| Emitter Cutoff Current | IEBO | V _{EB} =4V, I _C =0 | | | 1.0 | mA |
| Collector-to-Emitter Saturation Voltage | V _{CE(sat)} | I _C =10A, I _B =2.5A | | | 5 | V |
| Base-to-Emitter Saturation Voltage | V _{BE(sat)} | I _C =10A, I _B =2.5A | | | 1.5 | V |
| DC Current Gain | hFE1 | V _{CE} =5V, I _C =1.0A | 8 | | 30 | |
| De curient Gain | h _{FE} 2 | V _{CE} =5V, I _C =10A | 4 | | 8 | |
| Storage Time | ^t stg | I _C =8A, I _{B1} =1.6A, I _{B2} =-3.2A | | | 3.0 | μs |
| Fall Time | t _f | I _C =8A, I _{B2} =1.6A, I _{B2} =-3.2A | | | 0.2 | μs |

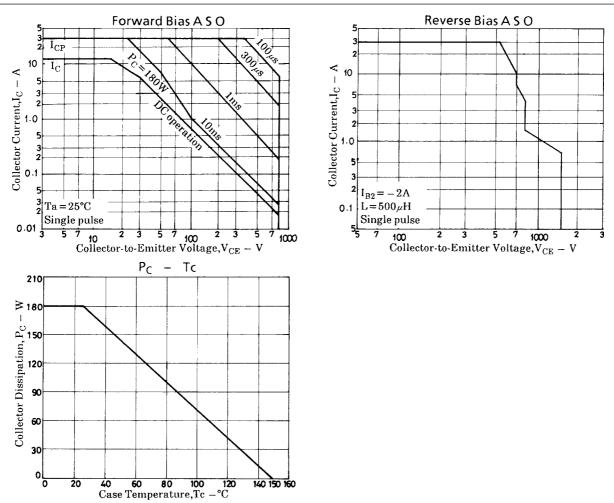
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