

2SD2645

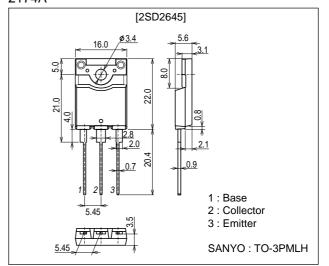
Color TV Horizontal Deflection Output Applications

Features

- · High speed.
- High breakdown voltage(V_{CBO}=1500V).
- 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 | | 1500 | V |
| Collector-to-Emitter Voltage | VCEO | | 800 | V |
| Emitter-to-Base Voltage | VEBO | | 5 | V |
| Collector Current | IC | | 10 | Α |
| Collector Current (Pulse) | ICP | | 25 | Α |
| Collector Dissipation | D- | | 3.0 | W |
| | PC | Tc=25°C | 80 | 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 | ICBO | V _{CB} =800V, I _E =0 | | | 10 | μΑ |
| | ICES | V _{CE} =1500V, R _{BE} =0 | | | 1.0 | mA |
| Collector Sustain Voltage | VCEO(sus) | I _C =100mA, I _B =0 | 800 | | | V |
| Emitter Cutoff Current | IEBO | V _{EB} =4V, I _C =0 | 40 | | 130 | mA |
| Collector-to-Emitter Saturation Voltage | VCE(sat) | IC=7.2A, IB=1.44A | | | 3 | V |
| Base-to-Emitter Saturation Voltage | V _{BE} (sat) | I _C =7.2A, I _B =1.44A | | | 1.5 | V |
| DC Current Gain | hFE1 | V _{CE} =5V, I _C =1A | 15 | | | |
| | hFE2 | VCE=5V, IC=8A | 5 | | 8 | |

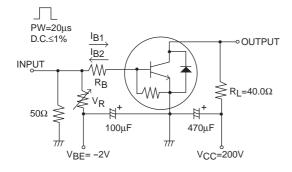
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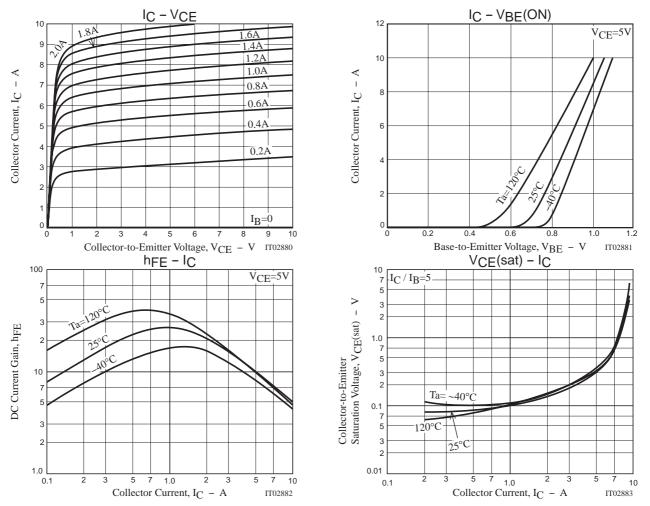
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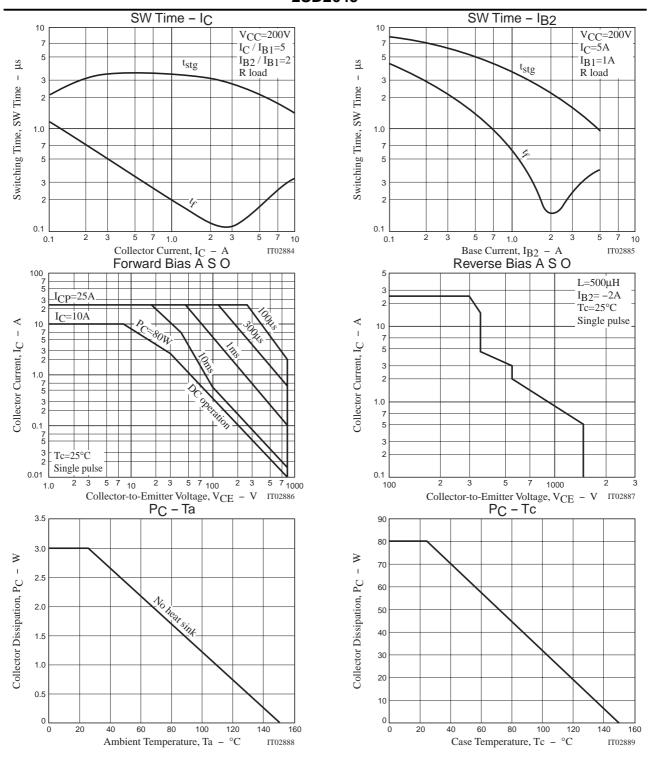
| Parameter | Symbol | Conditions | Ratings | | | Unit |
|-----------------------|--------|---|---------|-----|-----|--------|
| | | | min | typ | max | O IIII |
| Diode Forward Voltage | ٧F | IEC =8A | | | 2 | V |
| Fall Time | tf | I _C =5A, I _{B1} =1A, I _{B2} =-2A | | | 0.3 | μs |

Switching Time Test Circuit





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