



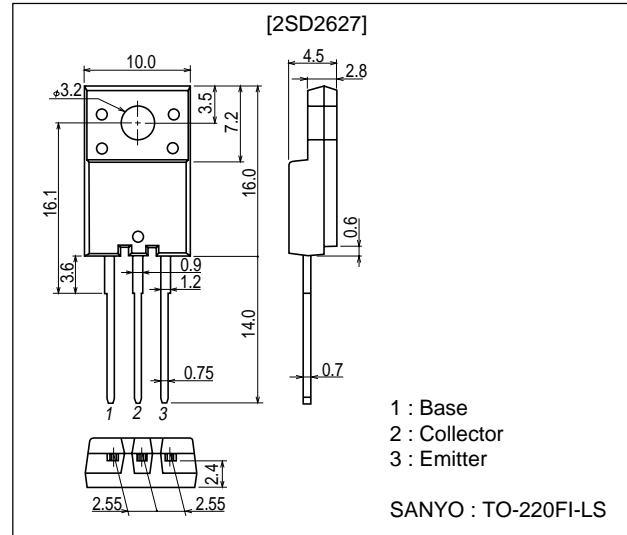
Color TV Horizontal Deflection Output Applications

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
2079C



Specifications

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

| Parameter | Symbol | Conditions | Ratings | Unit |
|------------------------------|-----------|------------------|-------------|------------|
| Collector-to-Base Voltage | V_{CBO} | | 1500 | V |
| Collector-to-Emitter Voltage | V_{CEO} | | 800 | V |
| Emitter-to-Base Voltage | V_{EBO} | | 6 | V |
| Collector Current | I_C | | 6 | A |
| Collector Current (Pulse) | I_{CP} | | 15 | A |
| Collector Dissipation | P_C | | 2.0 | W |
| | | $T_c=25^\circ C$ | 30 | 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} | $V_{CE}=800V, I_E=0$ | | | 10 | μA |
| 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} | $V_{EB}=4V, I_C=0$ | 40 | | 130 | mA |

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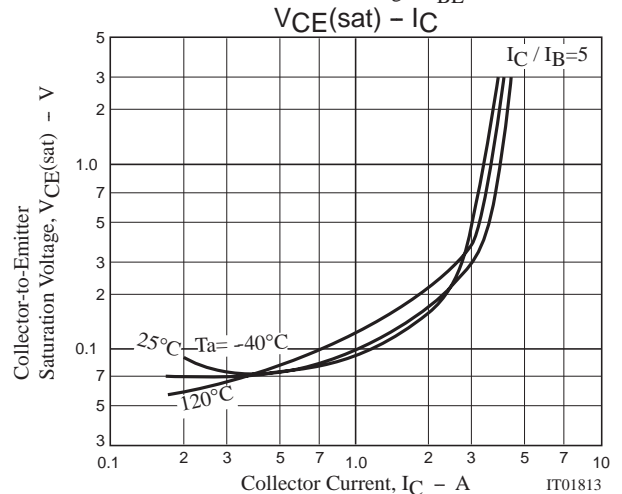
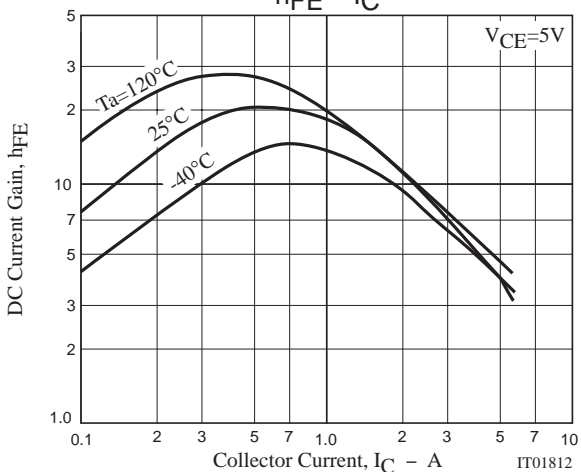
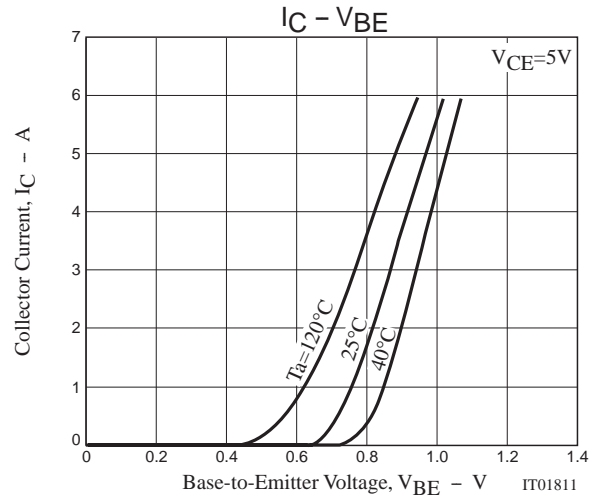
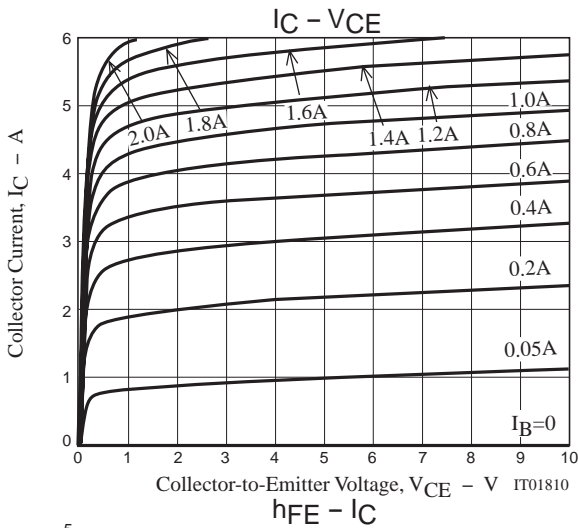
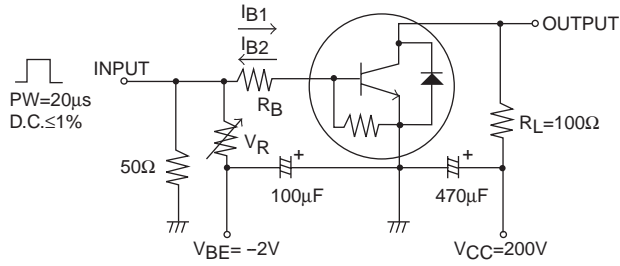
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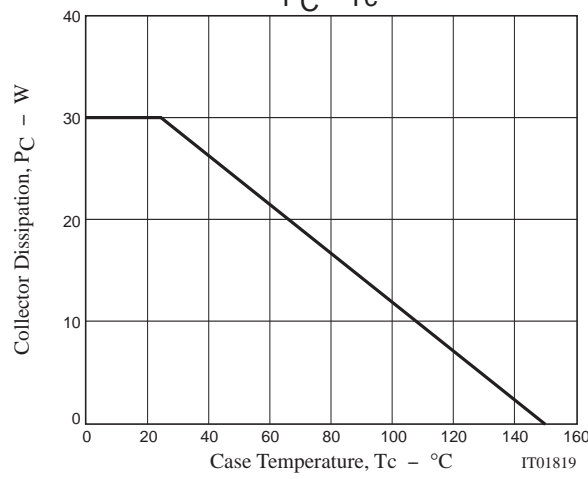
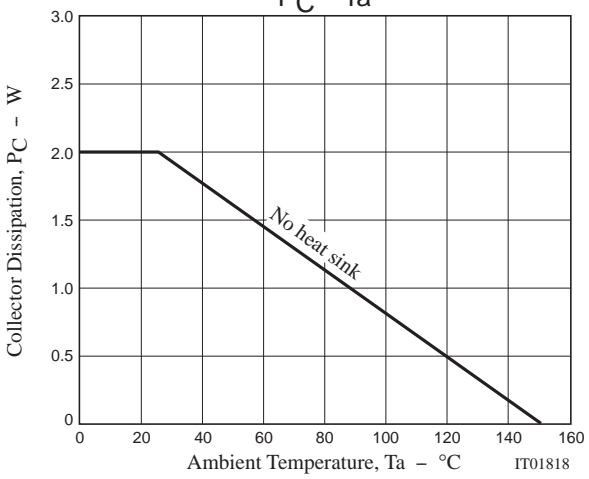
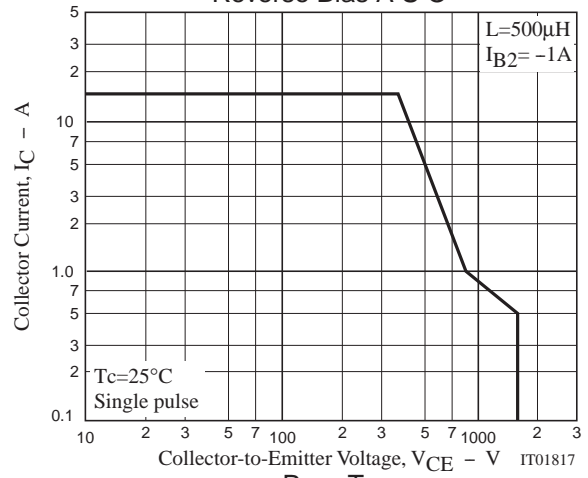
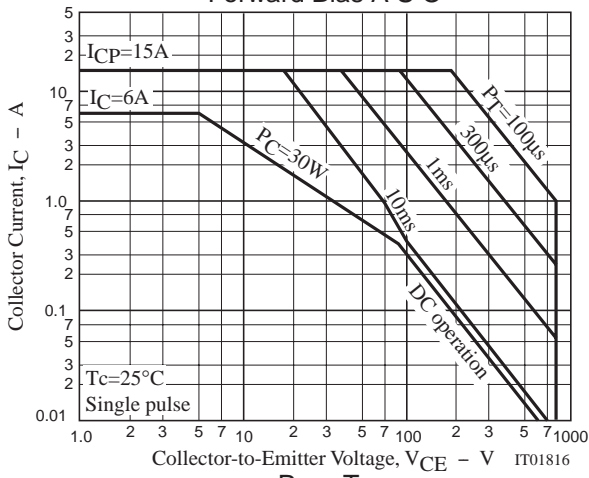
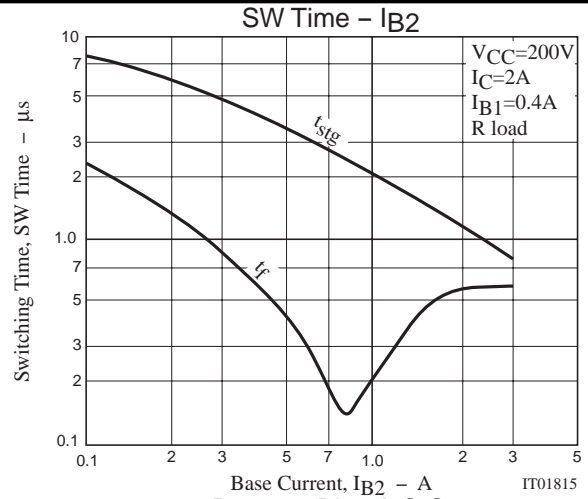
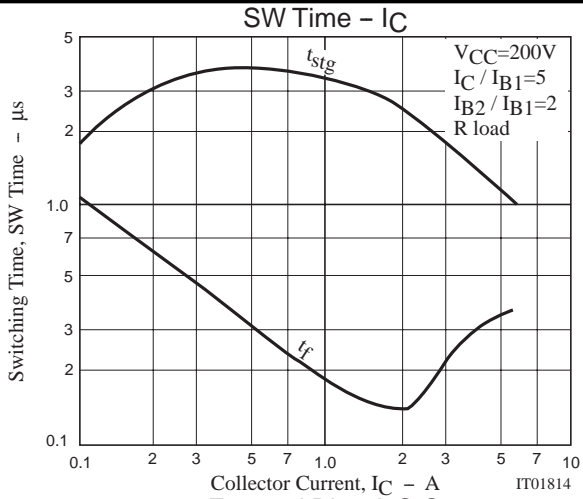
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| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---|---------------|-------------------------------------|---------|-----|-----|---------|
| | | | min | typ | max | |
| Collector-to-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=3.15A, I_B=0.63A$ | | | 3 | V |
| Base-to-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C=3.15A, I_B=0.63A$ | | | 1.5 | V |
| DC Current Gain | h_{FE1} | $V_{CE}=5V, I_C=0.5A$ | 10 | | | |
| | h_{FE2} | $V_{CE}=5V, I_C=3.5A$ | 5 | | 8 | |
| Diode Forward Voltage | V_F | $I_{EC}=6A$ | | | 2 | V |
| Fall Time | t_f | $I_C=2A, I_{B1}=0.4A, I_{B2}=-0.8A$ | | | 0.3 | μs |

Switching Time Test Circuit



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