

TT2138LS

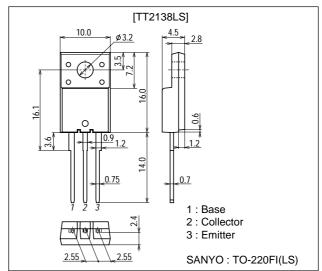
Color TV Horizontal Deflection Output Applications

Features

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

Package Dimensions

unit : mm 2079D



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 | | 3.5 | Α |
| Collector Current (Pulse) | ICP | | 9 | Α |
| Collector Dissipation | Do. | | 2.0 | W |
| | PC | Tc=25°C | 25 | 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 | ІСВО | V _{CB} =800V, I _E =0 | | | 10 | μΑ |
| Collector Cutoff Current | ICES | VCE=1500V, RBE=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 |

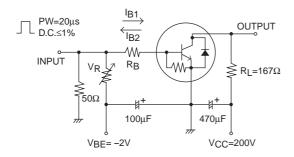
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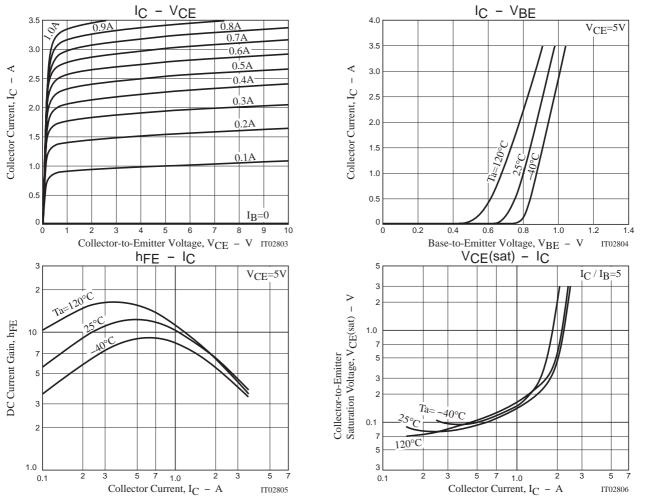
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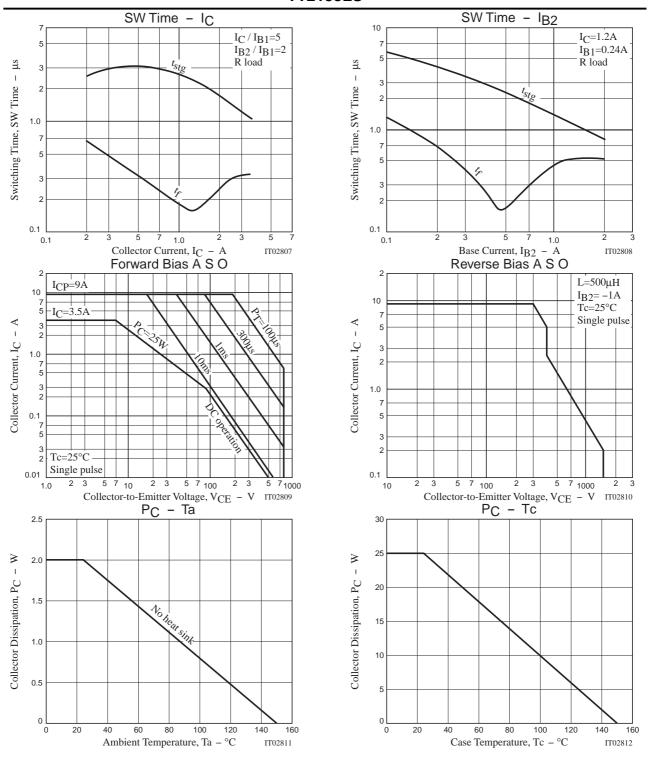
| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---|-----------------------|---|---------|-----|-----|------|
| | | | min | typ | max | Onn |
| Collector-to-Emitter Saturation Voltage | V _{CE} (sat) | I _C =1.8A, I _B =0.36A | | | 3 | V |
| Base-to-Emitter Saturation Voltage | V _{BE} (sat) | I _C =1.8A, I _B =0.36A | | | 1.5 | V |
| DC Current Gain | hFE1 | VCE=5V, IC=0.5A | 5 | | | |
| | hFE2 | V _{CE} =5V, I _C =2A | 5 | | 8 | |
| Diode Forward Voltage | ٧F | IEC=3A | | | 2 | V |
| Fall Time | tf | IC=1.2A, IB1=0.24A, IB2=-0.48A | | | 0.3 | μs |

Switching Time Test Circuit





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