#### 查询TT2138LS供应商

#### Ordering number : ENN7214

NPN Triple Diffused Planar Silicon Transistor

## **TT2138LS**

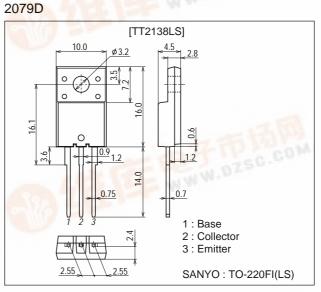
# **Color TV Horizontal Deflection Output Applications**

## **Features**

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

## Package Dimensions

unit : mm



## **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         | А    |
| Collector Current (Pulse)    | ICP    |            | 9           | А    |
| Collector Dissipation        | D.     |            | 2.0         | W    |
|                              | PC     | Tc=25°C    | 25          | W    |
| Junction Temperature         | Тј     | Man        | 150         | °C   |
| Storage Temperature          | Tstg   | .C         | -55 to +150 | °C   |

#### Electrical Characteristics at Ta=25°C

| Parameter                 | Symbol    | Conditions                               | Ratings |        |      | Unit |
|---------------------------|-----------|--|---------|--------|------|------|
|                           |           |  | min     | typ    | max  | Onit |
| Collector Cutoff Current  | ICBO      | V <sub>CB</sub> =800V, I <sub>E</sub> =0 | 1.1.1   | -7-    | 10   | μA   |
| Collector Cutoff Current  | ICES      | VCE=1500V, RBE=0                         | S-CF    | 37     | 1.0  | mA   |
| Collector Sustain Voltage | VCEO(sus) | IC=100mA, IB=0                           | 800     | W Ret. | 0.0- | V    |
| Emitter Cutoff Current    | IEBO      | V <sub>EB</sub> =4V, I <sub>C</sub> =0   | 40      |        | 130  | mA   |

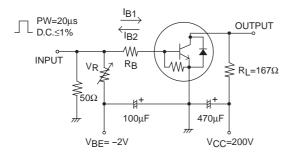
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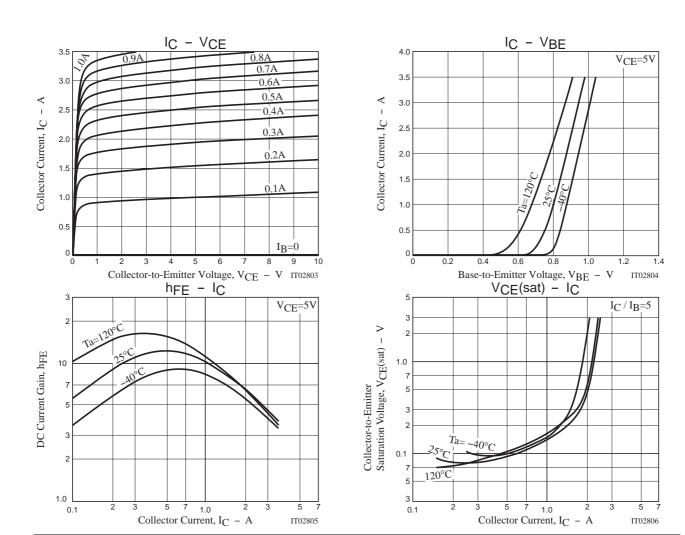
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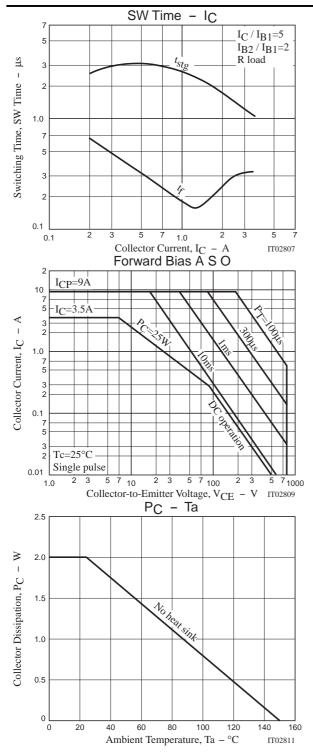
| Parameter                               | Symbol                | Conditions  | Ratings |     |     | Unit |
|---|-----------------------|---|---------|-----|-----|------|
|   |                       |   | min     | typ | max |      |
| Collector-to-Emitter Saturation Voltage | VCE(sat)              | IC=1.8A, IB=0.36A   |         |     | 3   | V    |
| Base-to-Emitter Saturation Voltage      | V <sub>BE</sub> (sat) | IC=1.8A, IB=0.36A   |         |     | 1.5 | V    |
| DC Current Gain                         | hFE1                  | V <sub>CE</sub> =5V, I <sub>C</sub> =0.5A                             | 5       |     |     |      |
|   | hFE2                  | V <sub>CE</sub> =5V, I <sub>C</sub> =2A                               | 5       |     | 8   |      |
| Diode Forward Voltage                   | VF                    | IEC=3A  |         |     | 2   | V    |
| Fall Time                               | tf                    | I <sub>C</sub> =1.2A, I <sub>B1</sub> =0.24A, I <sub>B2</sub> =-0.48A |         |     | 0.3 | μs   |

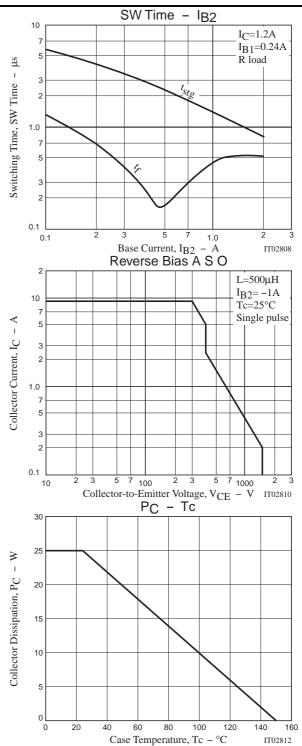
## **Switching Time Test Circuit**





TT2138LS





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