

**2SD1545**

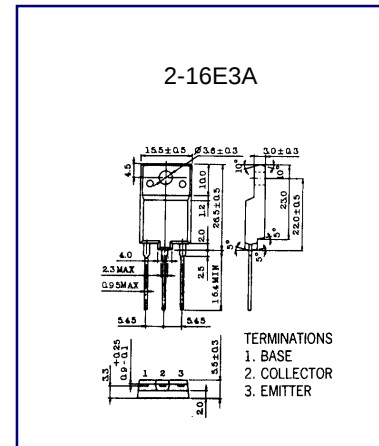
# NPN TRIPLE DIFFUSED PLANAR SILICON TRANSISTOR

## COLOR TV HORIZONTAL OUTPUT APPLICATIONS(NO Damper Diode)

- High Collector-Base Voltage( $V_{CBO}=1500V$ )
- High Speed Switching

### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C)

| Characteristic                               | Symbol           | Rating  | Unit |
|----------------------------------------------|------------------|---------|------|
| Collector-Base Voltage                       | V <sub>CB0</sub> | 1500    | V    |
| Collector-Emitter Voltage                    | V <sub>CE0</sub> | 800     | V    |
| Emitter-Base voltage                         | V <sub>EB0</sub> | 6       | V    |
| Collector Current (DC)                       | I <sub>C</sub>   | 5       | A    |
| Collector Dissipation (T <sub>c</sub> =25°C) | P <sub>C</sub>   | 50      | W    |
| Junction Temperature                         | T <sub>j</sub>   | 150     | °C   |
| Storage Temperature                          | T <sub>stg</sub> | -50~150 | °C   |



### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C)

| Characteristic                                  | Symbol        | Test Condition                         | Min | Typ | Max | Unit          |
|-------------------------------------------------|---------------|----------------------------------------|-----|-----|-----|---------------|
| Collector- Emitter Cutoff Current( $V_{BE}=0$ ) | ICES          | $V_{CE}=1400\text{ V}$ , $R_{BE}=0$    | 8   |     | 1.0 | mA            |
| Collector Cutoff Current                        | ICBO          | $V_{CB}=800\text{ V}$ , $I_E=0$        |     |     | 10  | $\mu\text{A}$ |
| Emitter Cutoff Current                          | IEBO          | $V_{EB}=4\text{ V}$ , $I_C=0$          |     |     | 1.0 | mA            |
| DC Current Gain                                 | hFE           | $V_{CE}=5\text{ V}$ , $I_C=1\text{ A}$ |     |     |     |               |
| Collector- Emitter Saturation Voltage           | $V_{CE(sat)}$ | $I_C=5\text{ A}$ , $I_B=1\text{ A}$    |     |     | 5.0 | V             |

