



# 2SD1546

## NPN TRIPLE DIFFUSED PLANAR SILICON TRANSISTOR

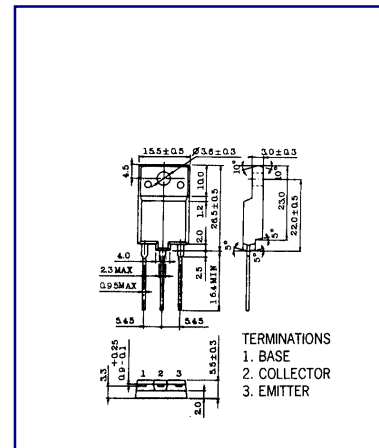
### COLOR TV HORIZONTAL OUTPUT APPLICATIONS(NO Damper Diode)

2-16E3A

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

### ABSOLUTE MAXIMUM RATINGS ( $T_a=25^{\circ}C$ )

| Characteristic                              | Symbol    | Rating  | Unit        |
|---|-----------|---------|-------------|
| Collector-Base Voltage                      | $V_{CBO}$ | 1500    | V           |
| Collector-Emitter Voltage                   | $V_{CEO}$ | 600     | V           |
| Emitter-Base voltage                        | $V_{EBO}$ | 6       | V           |
| Collector Current (DC)                      | $I_C$     | 6       | A           |
| Collector Dissipation ( $T_c=25^{\circ}C$ ) | $P_C$     | 50      | W           |
| Junction Temperature                        | $T_j$     | 150     | $^{\circ}C$ |
| Storage Temperature                         | $T_{stg}$ | -50~150 | $^{\circ}C$ |



### ELECTRICAL CHARACTERISTICS ( $T_a=25^{\circ}C$ )

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