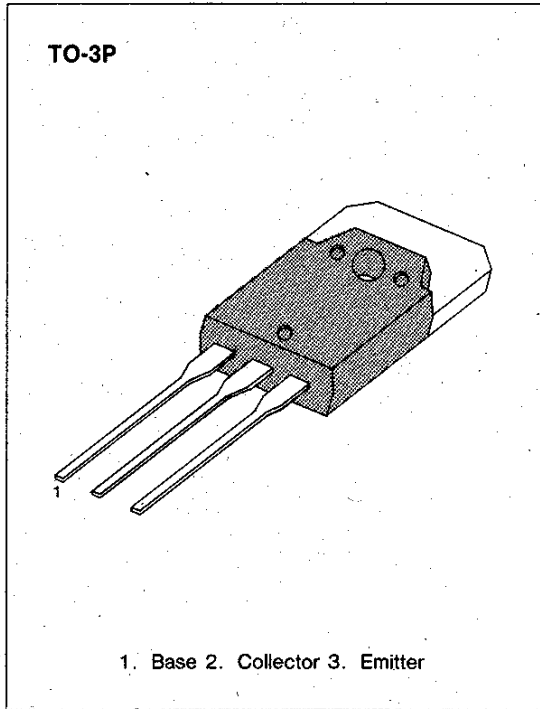


**COLOR TV HORIZONTAL OUT PUT  
APPLICATIONS**

HIGH Collector-Base Voltage  $V_{CBO}=1500V$

**ABSOLUTE MAXIMUM RATINGS ( $T_a=25^\circ C$ )**

| Characteristic                             | Symbol    | Rating  | Unit       |
|--|-----------|---------|------------|
| Collector-Base Voltage                     | $V_{CBO}$ | 1500    | V          |
| Collector-Emitter Voltage                  | $V_{CEO}$ | 800     | V          |
| Emitter-Base Voltage                       | $V_{EBO}$ | 7       | V          |
| Collector Current                          | $I_C$     | 5       | A          |
| Collector Current (Peak)                   | $I_C$     | 16      | A          |
| Collector Dissipation ( $T_C=25^\circ C$ ) | $P_C$     | 120     | W          |
| Junction Temperature                       | $T_J$     | 150     | $^\circ C$ |
| Storage Temperature                        | $T_{stg}$ | -55~150 | $^\circ C$ |



**ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ C$ )**

| Characteristic                       | Symbol        | Test Condition  | Min | Typ | Max | Unit    |
|--------------------------------------|---------------|---|-----|-----|-----|---------|
| Collector Cutoff Current             | $I_{CBO}$     | $V_{CB}=800V, I_E=0$  |     |     | 10  | $\mu A$ |
| Emitter Cutoff Current               | $I_{EBO}$     | $V_{EB}=5V, I_C=0$  |     |     | 1   | mA      |
| DC Current Gain                      | $h_{FE}$      | $V_{CE}=5V, I_C=1A$   | 8   |     |     |         |
| Collector Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=4A, I_B=0.8A$  |     |     | 5   | V       |
| Base Emitter Saturation Voltage      | $V_{BE(sat)}$ | $I_C=4A, I_B=0.8A$  |     |     | 1.5 | V       |
| Current Gain Bandwidth Product       | $f_T$         | $V_{CE}=10V, I_C=1A$  |     | 3   |     | MHz     |
| Fall Time                            | $t_f$         | $I_C=4A, I_{B1}=0.8A$<br>$I_{B2}=-1.6A, V_{CC}=200V$<br>$RL=50\Omega$ |     |     | 0.4 | $\mu S$ |