

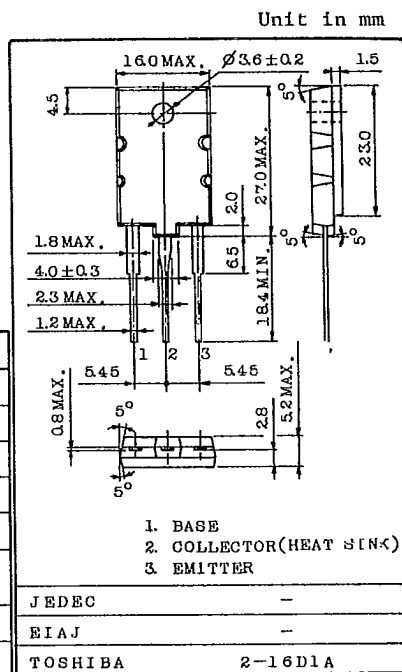
COLOR TV HORIZONTAL OUTPUT APPLICATIONS.

FEATURES:

- High Voltage : $V_{CB0}=1500V$
- Low Saturation Voltage : $V_{CE(sat)}=4V$ (Typ.) ($I_C=3A$, $I_B=0.8A$)
- High Speed : $t_f=1.0\mu s$ (Max.) ($I_{CP}=3A$, $I_{B1(end)}=0.8A$)
- Glass Passivated Collector-Base Junction

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

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---|-----------|-----------|------------|
| Collector-Base Voltage | V_{CB0} | 1500 | V |
| Collector-Emitter Voltage | V_{CEO} | 600 | V |
| Emitter-Base Voltage | V_{EB0} | 5 | V |
| Collector Current | I_C | 3.5 | A |
| Emitter Current | I_E | -3.5 | A |
| Collector Power Dissipation ($T_c=25^\circ C$) | P_C | 80 | W |
| Junction Temperature | T_j | 150 | $^\circ C$ |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | $^\circ C$ |



Weight : 5.2g

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

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|---------------|-----------------------------------|------|------|------|---------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=500V$, $I_E=0$ | - | - | 10 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=5V$, $I_C=0$ | - | - | 1 | mA |
| DC Current Gain | h_{FE} | $V_{CE}=5V$, $I_C=0.5A$ | 8 | 20 | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=3A$, $I_B=0.8A$ | - | 4 | 8 | V |
| Base-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C=3A$, $I_B=0.8A$ | - | - | 1.5 | V |
| Transition Frequency | f_T | $V_{CE}=10V$, $I_C=0.1A$ | - | 3 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=10V$, $I_E=0$, $f=1MHz$ | - | 95 | - | pF |
| Fall Time (Fig.) | t_f | $I_{CP}=3A$, $I_{B1(end)}=0.8A$ | - | 0.5 | 1.0 | μs |

Fig. t_f TEST CIRCUIT