

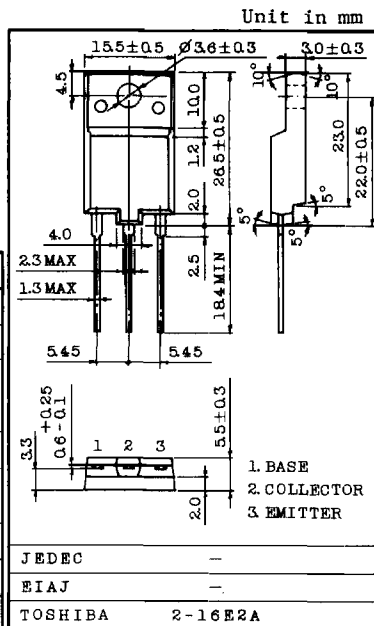
COLOR TV HORIZONTAL OUTPUT APPLICATIONS.

FEATURES:

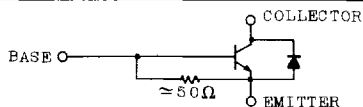
- High Voltage : $V_{CES}=1500V$
- Low Saturation Voltage : $V_{CE(sat)}=1V(\text{Max.})$
- High Speed : $t_f=0.7\mu s(\text{Typ.})$
- Built-in Damper Type
- Glass Passivated Base-Collector Junction
- Collector Metal (Fin) is Fully Covered with Mold Resin. (IS Package)

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

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|--|---------------|----------|--------------|
| Collector-Emitter Voltage | V_{CES} | 1500 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current | DC | I_C | 8 |
| | Peak | I_{CM} | 15 |
| Base Current (Peak) | I_{BM} | 4 | A |
| Total Power Dissipation (Infinite Heat Sink) | P_{tot} | 50 | W |
| Junction Temperature | T_j | 150 | $^\circ C$ |
| Storage Temperature Range | T_{stg} | -55~150 | $^\circ C$ |
| Thermal Resistance | $R_{th(j-c)}$ | 2.5 | $^\circ C/W$ |



EQUIVALENT CIRCUIT



Weight : 5.7g

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

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|----------------|-----------------------------------|------|------|------|---------|
| Collector Cut-off Current | I_{CES} | $V_{BE}=0, V_{CE}=1500V$ | - | - | 1 | mA |
| Emitter-Base Breakdown Voltage | $V_{(BR)EBO}$ | $I_C=0, I_E=200mA$ | 5 | - | - | V |
| DC Current Gain | h_{FE} | $V_{CE}=5V, I_C=4.5A$ | 2.25 | - | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=4.5A, I_B=2A$ | - | - | 1 | V |
| Base-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C=4.5A, I_B=2A$ | - | - | 1.5 | V |
| Forward Voltage (Diode) | $-V_F$ | $I_F=5A$ | - | 1.4 | 2.0 | V |
| Collector-Emitter Sustaining Voltage | $V_{CEX(SUS)}$ | $L=40mH, I_C=500mA, V_{BE}=-1.7V$ | 700 | - | - | V |
| Transition Frequency | f_T | $V_{CE}=5V, I_C=0.1A$ | - | 3 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=10V, I_E=0, f=1MHz$ | - | 125 | - | pF |
| | Switching Time | | | | | |
| | Fall Time | t_f | - | 0.7 | - | μs |
| | Storage Time | t_s | - | 10 | - | |