

COLOR TV HORIZONTAL OUTPUT APPLICATIONS.

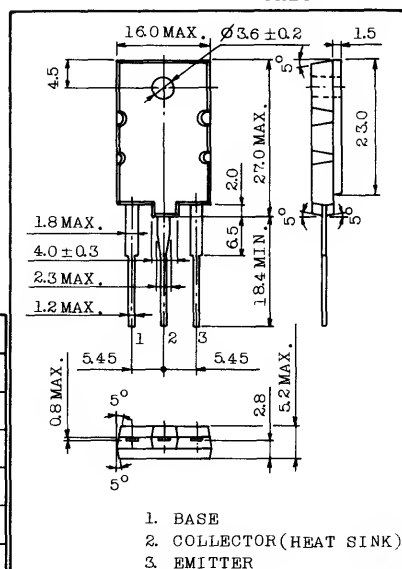
FEATURES :

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. High Voltage : VCB0=1500V
. Low Saturation Voltage
 : VCE(sat)=5V(Max.) (IC=4A, IB=0.8A)
. High Speed : tf=1.0μs(Max.)
. Glass Passivated Collector-Base Junction

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Unit in mm



|         |         |
|---------|---------|
| JEDEC   | —       |
| EIAJ    | —       |
| TOSHIBA | 2-16D1A |

Weight : 5.2g

### ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC                       | SYMBOL        | TEST CONDITION                | MIN. | TYP. | MAX. | UNIT    |
|--------------------------------------|---------------|-------------------------------|------|------|------|---------|
| Collector Cut-off Current            | $I_{CBO}$     | $V_{CB}=500V, I_E=0$          | -    | -    | 10   | $\mu A$ |
| Emitter Cut-off Current              | $I_{EBO}$     | $V_{EB}=5V, I_C=0$            | -    | -    | 1    | mA      |
| DC Current Gain                      | $h_{FE}$      | $V_{CE}=5V, I_C=1A$           | 8    | 20   | -    |         |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=4A, I_B=0.8A$            | -    | 3    | 5    | V       |
| Base-Emitter Saturation Voltage      | $V_{BE(sat)}$ | $I_C=4A, I_B=0.8A$            | -    | -    | 1.5  | V       |
| Transition Frequency                 | $f_T$         | $V_{CE}=10V, I_C=0.1A$        | -    | 3    | -    | MHz     |
| Collector Output Capacitance         | $C_{ob}$      | $V_{CB}=10V, I_E=0, f=1MHz$   | -    | 165  | -    | pF      |
| Fall Time (Fig.)                     | $t_f$         | $I_{CP}=4A, I_{B1}(end)=0.8A$ | -    | 0.5  | 1.0  | $\mu s$ |

Fig.  $t_f$  TEST CIRCUIT