

# 2SC1617

SILICON NPN TRIPLE DIFFUSED TYPE

BLACK AND WHITE TV HORIZONTAL OUTPUT APPLICATIONS.

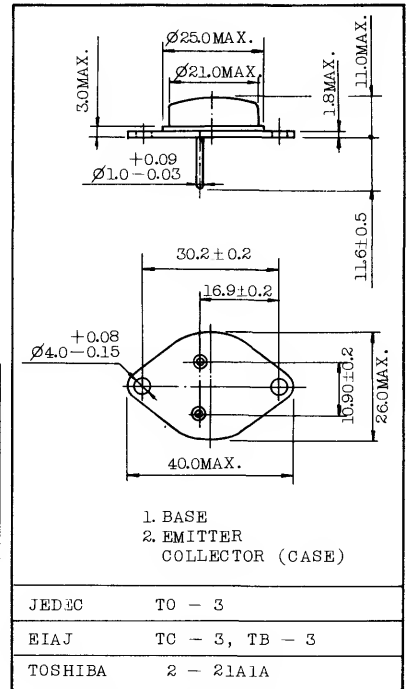
FEATURES;

- High Voltage :  $V_{CBO}=300V$
- Wide Safe Operating Area.

MAXIMUM RATINGS (Ta=25°C)

| CHARACTERISTIC              | SYMBOL    | RATING  | UNIT |
|-----------------------------|-----------|---------|------|
| Collector-Base Voltage      | $V_{CBO}$ | 300     | V    |
| Collector-Emitter Voltage   | $V_{CEO}$ | 100     | V    |
| Emitter-Base Voltage        | $V_{EBO}$ | 5       | V    |
| Collector Current           | $I_C$     | 7       | A    |
| Emitter Current             | $I_E$     | -7      | A    |
| Collector Power Dissipation | $P_C$     | 50      | W    |
| Junction Temperature        | $T_j$     | 150     | °C   |
| Storage Temperature Range   | $T_{stg}$ | -55~150 | °C   |

Unit in mm



Mounting kit No. AC73  
Weight : 12.0g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC            |                   | SYMBOL        | TEST CONDITION        | MIN. | TYP. | MAX. | UNIT |
|---------------------------|-------------------|---------------|-----------------------|------|------|------|------|
| Collector Cut-off Current |                   | $I_{CBO}$     | $V_{CB}=250V, I_E=0$  | -    | -    | 1.0  | mA   |
| Emitter Cut-off Current   |                   | $I_{EBO}$     | $V_{EB}=5V, I_C=0$    | -    | -    | 1.0  | mA   |
| DC Current Gain           |                   | $h_{FE(1)}$   | $V_{CE}=5V, I_C=1A$   | 30   | -    | 150  |      |
|                           |                   | $h_{FE(2)}$   | $V_{CE}=5V, I_C=7A$   | 15   | -    | -    |      |
| Saturation Voltage        | Collector-Emitter | $V_{CE(sat)}$ | $I_C=5A, I_B=0.5A$    | -    | -    | 1.2  | V    |
|                           | Base-Emitter      | $V_{BE(sat)}$ | $I_C=5A, I_B=0.5A$    | -    | -    | 1.5  |      |
| Transition Frequency      |                   | $f_T$         | $V_{CE}=5V, I_C=0.5A$ | -    | 10   | -    | MHz  |

STATIC CHARACTERISTICS

