

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL PLANAR TYPE

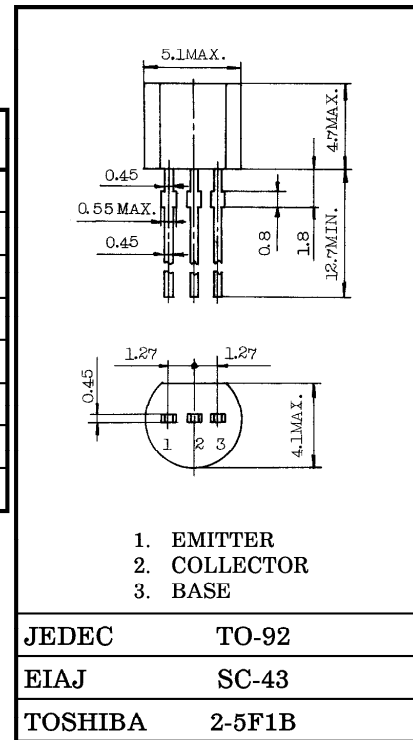
2SC2347

TV UHF OSCILLATOR APPLICATIONS.
TV VHF MIXER APPLICATIONS.

Unit in mm

MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|------------------|---------|------|
| Collector-Base Voltage | V _{CB0} | 30 | V |
| Collector-Emitter Voltage | V _{CEO} | 15 | V |
| Emitter-Base Voltage | V _{EB0} | 3 | V |
| Collector Current | I _C | 50 | mA |
| Emitter Current | I _E | -50 | mA |
| Collector Power Dissipation | P _C | 250 | mW |
| Junction Temperature | T _j | 125 | °C |
| Storage Temperature Range | T _{stg} | -55~125 | °C |



Weight : 0.21g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|-------------------------------------|----------------------|--|------|------|------|------|
| Collector Cut-off Current | I _{CB0} | V _{CB} = 15V, I _E = 0 | — | — | 0.1 | μA |
| Emitter Cut-off Current | I _{EB0} | V _{EB} = 3V, I _C = 0 | — | — | 1.0 | μA |
| Collector-Emitter Breakdown Voltage | V _{(BR)CEO} | I _C = 1mA, I _B = 0 | 15 | — | — | V |
| DC Current Gain | h _{FE} | V _{CE} = 3V, I _C = 8mA | 20 | — | — | — |
| Transition Frequency | f _T | V _{CE} = 10V, I _C = 8mA | 650 | — | — | MHz |
| Collector Output Capacitance | C _{ob} | V _{CB} = 10V, I _E = 0, f = MHz | — | 1.2 | 1.5 | pF |
| Collector-Base Time Constant | C _{c-rbb'} | V _{CB} = 10V, I _C = 8mA, f = 30MHz | — | — | 12 | ps |

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STATIC CHARACTERISTICS

