

SANYO SEMICONDUCTOR 2SD904

2SD904

NPN Triple Diffused Mesa Type Silicon Transistor
For Horizontal Deflection Output of 20" Color TV
(With Damper Diode)

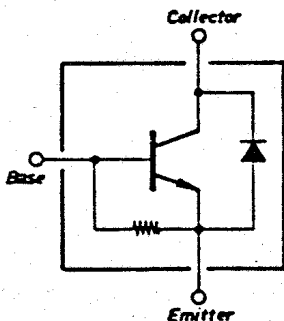
Absolute Maximum Ratings at Ta=25°C

| | | | |
|------------------------------|------|----------|----|
| Collector to Base Voltage | VCBO | 1500 | V |
| Collector to Emitter Voltage | VCEO | 600 | V |
| Emitter to Base Voltage | VEBO | 6 | V |
| Collector Current | IC | 7 | A |
| Collector Current (Peak) | icp | 10 | A |
| Collector Dissipation | PC | 3 | W |
| | PC | 50 | W |
| | | Tc=25°C | |
| Junction Temperature | Tj | 150 | °C |
| Storage Temperature | Tstg | -40~+150 | °C |

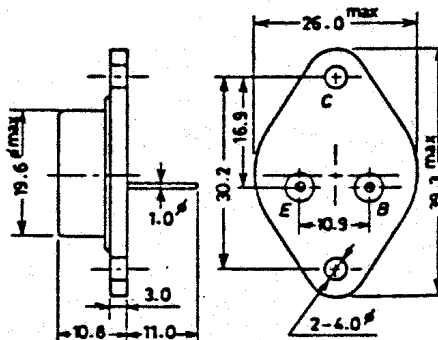
Electrical Characteristics at Ta=25°C

| | | | min | typ | max | unit |
|------------------------------|----------|-------------------------|-----|-----|-----|------|
| Collector Cut off Current | ICES | VCB=1500V, VEB=0 | | | 1.0 | mA |
| Emitter Cut off Current | IEBO | VEB=4V, IC=0 | 44 | | 100 | mA |
| Base to Emitter Voltage | VBE0 | IE=200mA, IC=0 | 6.0 | | | V |
| Emitter to Collector Voltage | VECO | IE=4A, IB=0 | | | 2.0 | V |
| DC Current Gain | hFE (1) | VCE=5V, IC=4A | 5 | | 10 | |
| | hFE (2) | VCE=5V, IC=1A | 8 | | | |
| C-E Saturation Voltage | VCE(sat) | IC=3A, IB=0.75A | | | 5 | V |
| B-E Saturation Voltage | VBE(sat) | IC=3A, IB=0.6A | | | 1.6 | V |
| C-E Sustain Voltage | VCE(sus) | IC=100mA, IB=0, L=35mH | 600 | | | |
| Fall Time | tf | IC=3A, IB=0.6A, Tc=80°C | | | 1.0 | µs |

Equivalent Circuit



Case Outline (unit:mm)



EIAJ : TC-3, TB-3 C: Collector
JEDEC: TO-3 E: Emitter
 B: Base