

2SC2271



2006A

NPN Triple Diffused Planar Silicon Transistor

T-31-23

Chroma Output, Horizontal Deflection Driver Applications

©493E

Small-sized color TV chroma use and B/W TV, color TV horizontal deflection driver use.

Absolute Maximum Ratings at Ta=25°C

| | | | unit |
|------------------------------|------|-------------|------|
| Collector to Base Voltage | VCBO | 300 | V |
| Collector to Emitter Voltage | VCEO | 300 | V |
| Emitter to Base Voltage | VEBO | 6 | V |
| Collector Current | IC | 100 | mA |
| Peak Collector Current | icp | 300 | mA |
| Collector Dissipation | PC | 900 | mW |
| Junction Temperature | Tj | 150 | °C |
| Storage Temperature | Tstg | -55 to +150 | °C |

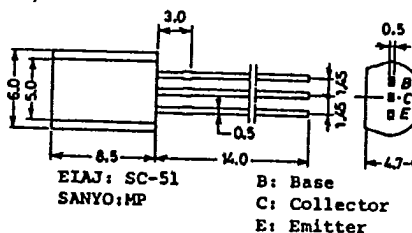
Electrical Characteristics at Ta=25°C

| | | | min | typ | max | unit |
|---------------------------|----------|-------------------|-----|-----|------|------|
| Collector Cut Off Current | ICBO | VCB=200V, IE=0 | | | 1.0 | uA |
| Emitter Cut Off Current | IEBO | VEB=6V, IC=0 | | | 1.0 | uA |
| DC Current Gain | hFE | VCE=10V, IC=10mA | 40* | | 200* | |
| Gain Band Width Product | fT | VCE=30V, IC=10mA | 50 | | | MHz |
| Output Capacitance | cob | VCB=10V, f=1MHz | | | 7.5 | pF |
| C-E Saturation Voltage | VCE(sat) |) IC=20mA, IB=2mA | | | 0.6 | V |
| B-E Saturation Voltage | VBE(sat) | | | | 1.0 | V |

* The 2SC2271 is classified by 10mA hFE as follows.

| | | | | | | | | |
|----|---|----|----|---|-----|-----|---|-----|
| 40 | C | 80 | 60 | D | 120 | 100 | E | 200 |
|----|---|----|----|---|-----|-----|---|-----|

Case Outline 2006A (unit:mm)



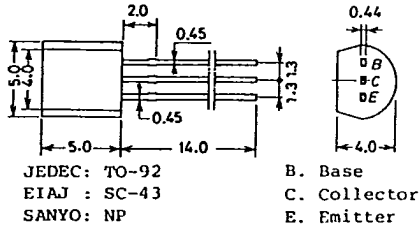
The 2SC2271 is scheduled to be discontinued soon. Use the 2SC3468, instead of the 2SC2271, in new applications where you are planning to use the 2SC2271.

4157KI/3195MW, TS No.493-1/2

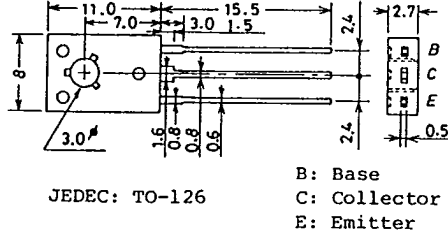
CASE OUTLINES AND ATTACHMENTS

- All of Sanyo Transistor case outlines are illustrated below.
- All dimensions are in mm, and dimensions which are not followed by min. or max. are represented by typical values.
- No marking is indicated.

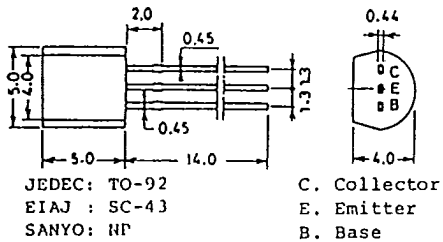
Case Outline-[2003A]
unit:mm



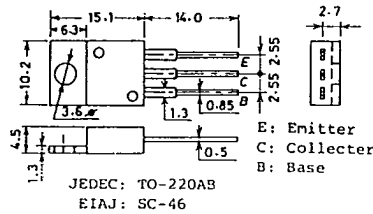
Case Outline-[2009A]
unit:mm



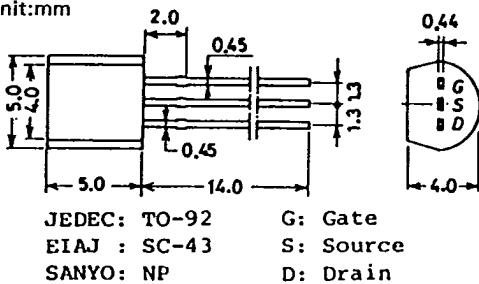
Case Outline-[2004A]
unit:mm



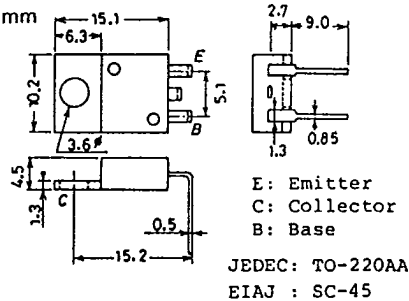
Case Outline-[2010A]
unit:mm



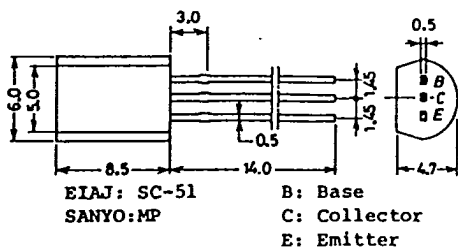
Case Outline-[2005A]
unit:mm



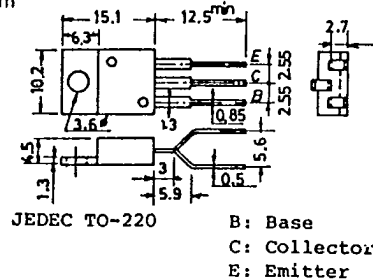
Case Outline-[2012]
unit:mm



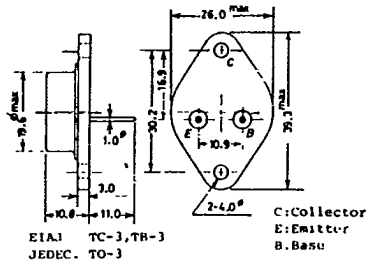
Case Outline-[2006A]
unit:mm



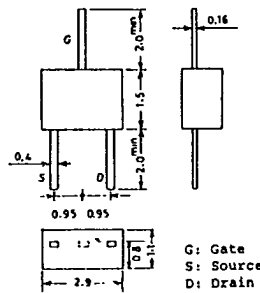
Case Outline-[2013]
unit:mm



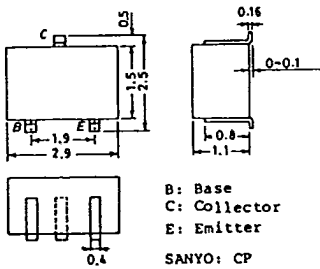
Case Outline-[2017]
unit:mm



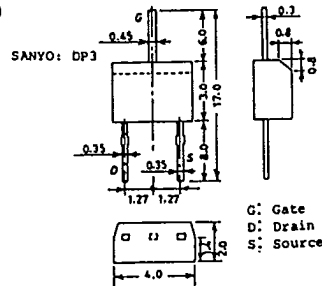
Case Outline-[2025]
unit:mm



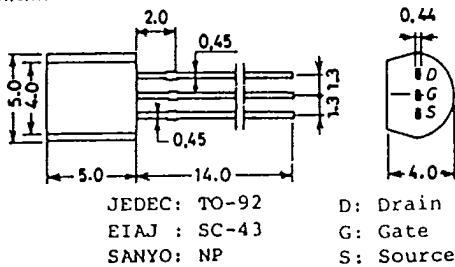
Case Outline-[2018A]
unit:mm



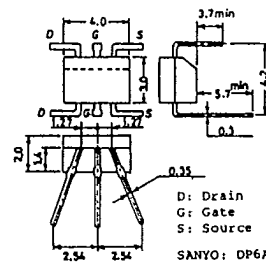
Case Outline-[2026]
unit:mm



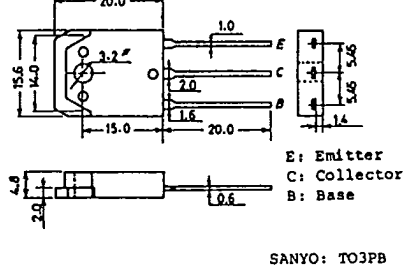
Case Outline-[2019A]
unit:mm



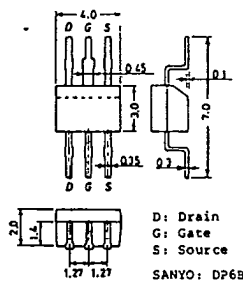
Case Outline-[2027A]
unit:mm



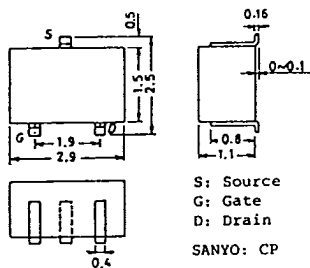
Case Outline-[2022]
unit:mm



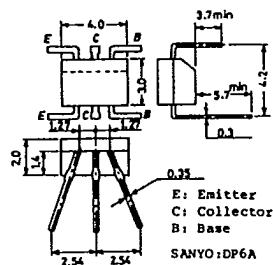
Case Outline-[2028A]
unit:mm



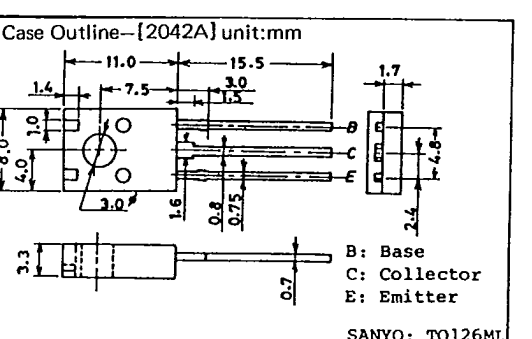
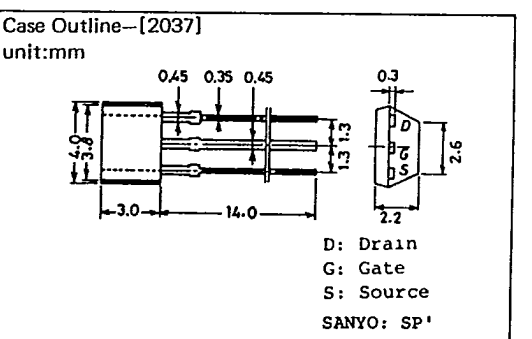
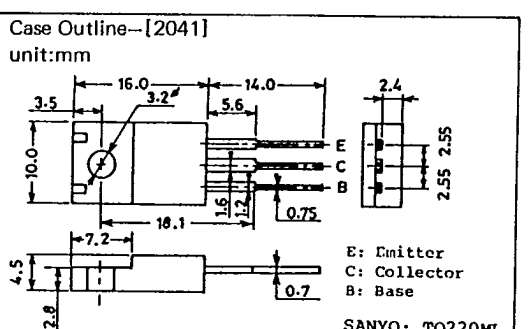
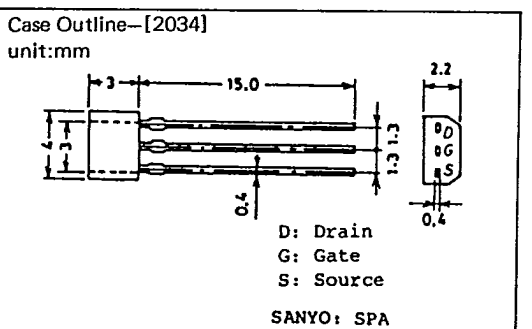
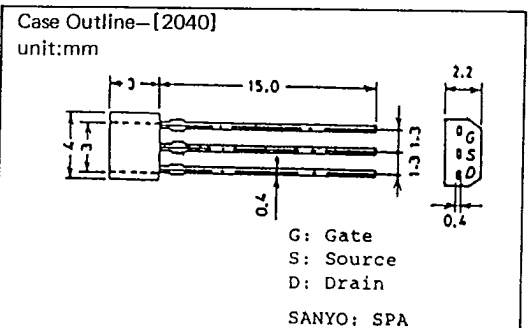
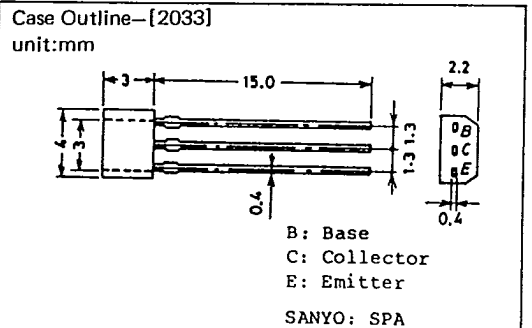
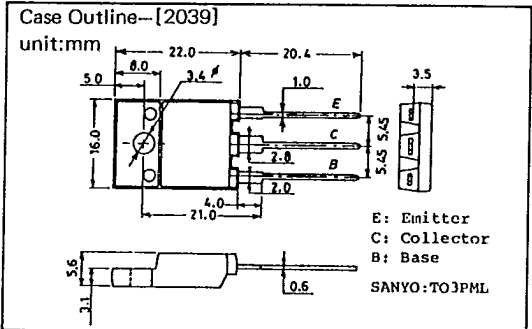
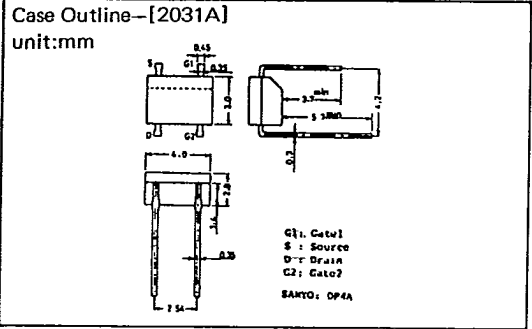
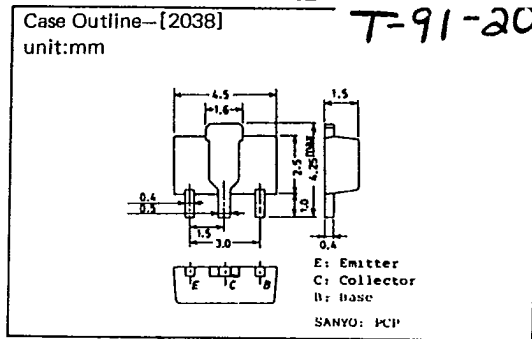
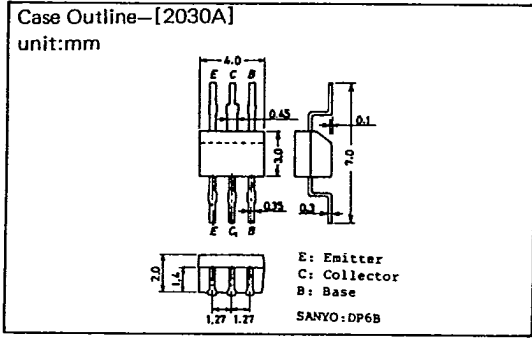
Case Outline-[2024A]
unit:mm



Case Outline-[2029A]
unit:mm



T-91-20



T-91-20

