

High-h_{FE} High V_{EBO} Transistors

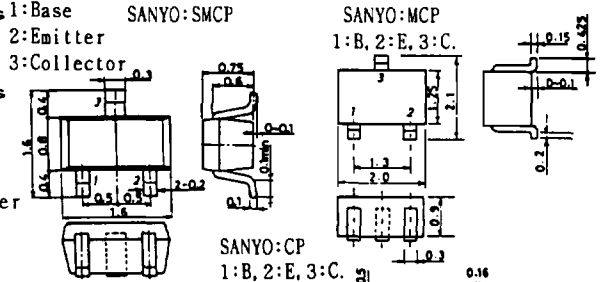
High-h_{FE}, High-VEBO Transistors

Features

- * High h_{FE} (500 to 3200)
- * High V_{EBO} ≥ 15V
- * Low saturation voltage (V_{CE(sat)} ≤ 0.5V)
- * Very small package permitting audio/video sets to be made smaller, slimmer

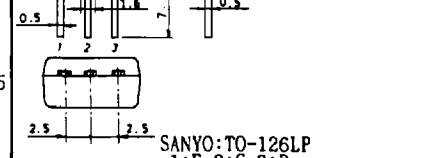
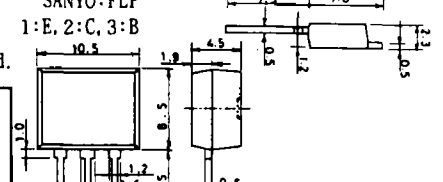
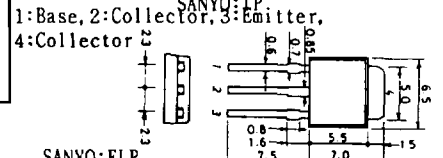
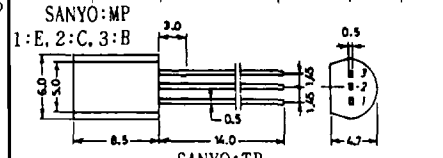
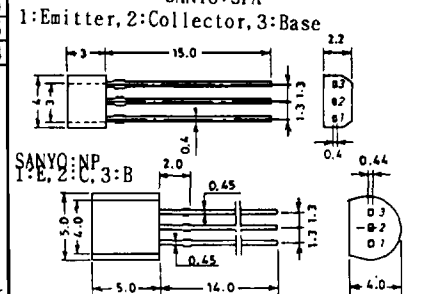
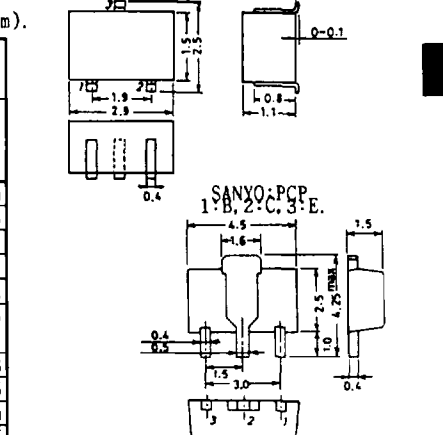
Applications

- * AF amp
- * Driver
- * Muting circuit



©:Resistance-Contained (2SC4909:R1=47KΩ, R2=47KΩ)
For PNP, (-) sign is omitted. * sign Tc=25°C. ☆ sign Mounted on ceramic board (250mm×0.8mm).

| Type No. ():Marking on MCP, CP. | Package | Absolute Maximum Ratings/ Ta=25°C | | | | | Electrical Characteristics/Ta=25°C | | | | | | | |
|--|----------|--------------------------------------|------------------|------------------|----------------|----------------|------------------------------------|----------------|-----------------|----------------|----------------|----------------------|------|-----|
| | | V _{CB0} | V _{CEO} | V _{EBO} | I _C | P _C | V _{CE} | I _C | h _{FE} | I _C | I _B | V _{CE(sat)} | max | |
| | | (V) | (V) | (V) | (A) | (W) | (V) | (mA) | | (mA) | (mA) | typ | (V) | |
| 2SC4919(DA) | SMCP | 25 | 15 | 5 | 0.1 | 0.15 | 2 | 5 | 800 ~ 3200 | 10 | 1 | 14m | 30m | |
| 2SA1813(KS) | MCP | 30 | 25 | 15 | 0.15 | 0.15 | 5 | 1 | 500 ~ 1200 | 50 | 1 | 0.15 | 0.3 | |
| 2SC4413(GY) | | 60 | 50 | 15 | 0.1 | 0.15 | 5 | 10 | 800 ~ 3200 | 50 | 1 | 0.1 | 0.5 | |
| 2SC4851(YT) | MCP | 25 | 15 | 5 | 0.1 | 0.2 | 2 | 5 | 800 ~ 3200 | 10 | 1 | 14m | 30m | |
| 2SC4909(JN)© | | 25 | 20 | 10 | 0.1 | 0.2 | 2 | 5 | 200 | 2 | 0.2 | 10m | 30m | |
| 2SA1434(FL) | CP | 60 | 50 | 15 | 0.1 | 0.2 | 5 | 10 | 500 ~ 1200 | 50 | 1 | 0.2 | 0.5 | |
| 2SC3689(GY) | | 30 | 25 | 15 | 0.15 | 0.2 | 5 | 1 | 500 ~ 1200 | 50 | 1 | 0.15 | 0.3 | |
| 2SA1814(KS) | CP | 30 | 25 | 15 | 0.3 | 0.2 | 5 | 10 | 800 ~ 3200 | 200 | 4 | 0.12 | 0.5 | |
| 2SC3661(FY) | | 25 | 15 | 5 | 0.1 | 0.25 | 2 | 5 | 800 ~ 3200 | 10 | 1 | 14m | 30m | |
| 2SC4852(YT) | CP | 30 | 25 | 15 | 0.3 | 0.2 | 5 | 10 | 500 ~ 1200 | 200 | 4 | 0.12 | 0.5 | |
| 2SA1766(AL) | | 30 | 25 | 15 | 0.3 | ☆1.3 | 5 | 10 | 500 ~ 1200 | 200 | 4 | 0.12 | 0.5 | |
| 2SC3650(CF) | PCP | 30 | 25 | 15 | 1.2 | ☆1.5 | 5 | 500 | 800 ~ 3200 | 500 | 10 | 0.12 | 0.5 | |
| 2SC3651(CG) | | 120 | 100 | 15 | 0.2 | ☆1.3 | 5 | 10 | 500 ~ 2000 | 100 | 2 | 0.15 | 0.5 | |
| 2SC4390(CJ) | PCP | 20 | 10 | 5 | 2 | ☆1.3 | 2 | 500 | 800 ~ 3200 | 1000 | 20 | 0.11 | 0.3 | |
| 2SC4705(CP) | | 60 | 50 | 15 | 0.2 | ☆1.3 | 5 | 100 | 800 ~ 3200 | 100 | 2 | 0.12 | 0.5 | |
| 2SC5069(CU) | PCP | 30 | 25 | 15 | 2 | ☆1.5 | 5 | 500 | 800 ~ 3200 | 1000 | 20 | 0.15 | 0.5 | |
| 2SC3576 | | SPA | 30 | 25 | 15 | 0.3 | 0.3 | 5 | 10 | 800 ~ 3200 | 200 | 4 | 0.12 | 0.5 |
| 2SC3820 | 60 | | 50 | 15 | 0.1 | 0.3 | 5 | 10 | 800 ~ 3200 | 50 | 1 | 0.1 | 0.3 | |
| 2SA1435 | NP | 30 | 25 | 15 | 0.3 | 0.6 | 5 | 10 | 500 ~ 1200 | 200 | 4 | 0.18 | 0.5 | |
| 2SC3068 | | 60 | 50 | 15 | 0.2 | 0.6 | 5 | 10 | 800 ~ 3200 | 100 | 2 | 0.18 | 0.5 | |
| 2SA1436 | NP | 120 | 100 | 15 | 50m | 0.5 | 5 | 10 | 400 ~ 1000 | 10 | 0.2 | 0.18 | 0.5 | |
| 2SC3069 | | 30 | 25 | 15 | 0.7 | 0.6 | 5 | 50 | 800 ~ 3200 | 500 | 10 | 0.15 | 0.5 | |
| 2SA1437 | NP | 60 | 50 | 15 | 0.2 | 0.6 | 5 | 10 | 500 ~ 1200 | 200 | 4 | 0.18 | 0.5 | |
| 2SC3495 | | 120 | 100 | 15 | 50m | 0.5 | 5 | 10 | 400 ~ 1000 | 10 | 0.2 | 0.18 | 0.5 | |
| 2SC4204 | TP | 30 | 25 | 15 | 0.7 | 0.6 | 5 | 50 | 800 ~ 3200 | 500 | 10 | 0.15 | 0.5 | |
| 2SA1562 | | 30 | 25 | 15 | 1.2 | *15 | 5 | 100 | 500 ~ 1200 | 500 | 10 | 0.1 | 0.3 | |
| 2SC5155 | MP | 50 | 20 | 10 | 3 | *20 | 2 | 500 | 800 ~ 3200 | 2000 | 20 | 0.15 | 0.5 | |
| 2SC3070 | | 30 | 25 | 15 | 1.2 | 1 | 5 | 500 | 800 ~ 3200 | 500 | 10 | 0.12 | 0.5 | |
| 2SC3071 | MP | 120 | 100 | 15 | 0.2 | 1 | 5 | 10 | 500 ~ 2000 | 100 | 2 | 0.15 | 0.5 | |
| 2SC4736 | | FLP | 80 | 60 | 15 | 2 | 1.5 | 5 | 500 | 800 ~ 3200 | 1000 | 20 | 0.2 | 0.5 |
| 2SC5070 | 30 | | 25 | 15 | 2 | 1.5 | 5 | 500 | 800 ~ 3200 | 1000 | 20 | 0.15 | 0.5 | |
| 2SA1692 | TO-126LP | 30 | 25 | 15 | 2 | *15 | 5 | 100 | 500 ~ 1200 | 1000 | 20 | 0.15 | 0.5 | |
| 2SC3807 | | 80 | 60 | 15 | 2 | *15 | 5 | 500 | 800 ~ 3200 | 1000 | 20 | 0.2 | 0.5 | |
| 2SC3808 | TO-126LP | 80 | 60 | 15 | 2 | *15 | 5 | 500 | 800 ~ 3200 | 1000 | 20 | 0.2 | 0.5 | |



High-VEBO Transistors

Features

- * Highly resistant to surge voltage because of high V_{EBO}.
- * Highly resistant to breakdown because of wide ASO.

For PNP, (-) sign is omitted.

| | | | | | | | | | | | | | |
|-------------|----------|----|----|----|------|------|---|-----|------------|------|----|------|-----|
| 2SA1687(D) | MCP | 60 | 50 | 15 | 0.15 | 0.15 | 6 | 1 | 135 ~ 600 | 50 | 5 | 0.25 | 0.5 |
| 2SC4446(H) | | 50 | 20 | 25 | 0.5 | 0.15 | 5 | 10 | 300 ~ 1200 | 100 | 2 | 0.12 | 0.5 |
| 2SC4694(WT) | CP | 60 | 50 | 15 | 0.15 | 0.2 | 6 | 1 | 100 ~ 560 | 50 | 5 | 0.2 | 0.5 |
| 2SA1252(D-) | | 50 | 20 | 25 | 0.5 | 0.25 | 5 | 10 | 300 ~ 1200 | 100 | 2 | 0.12 | 0.5 |
| 2SC3134(H-) | SPA | 60 | 50 | 15 | 0.2 | 0.25 | 6 | 1 | 100 ~ 560 | 50 | 5 | 0.2 | 0.5 |
| 2SC4695(WT) | | 50 | 20 | 25 | 0.5 | 0.25 | 5 | 10 | 300 ~ 1200 | 100 | 2 | 0.12 | 0.5 |
| 2SA1253 | NP | 60 | 50 | 15 | 0.15 | 0.4 | 6 | 1 | 100 ~ 560 | 50 | 5 | - | - |
| 2SC3114 | | 50 | 20 | 25 | 0.5 | 0.5 | 5 | 10 | 300 ~ 1200 | 100 | 2 | 0.12 | 0.5 |
| 2SC3792 | TO-126LP | 80 | 60 | 15 | 2 | *15 | 5 | 500 | 800 ~ 3200 | 1000 | 20 | 0.2 | 0.5 |

These specifications are subject to change without notice.