

# Transistors (Selection Guide by Applications and Functions)

## ■ Silicon Power Transistors for TV and Monitor Display

| Applica-<br>tion     | V <sub>CEO</sub><br>(V) | I <sub>c</sub><br>(A) | t <sub>r</sub><br>max.<br>(μs) | Package (No.)    |                    |                |                              |                    |                              |                               |                              |                 |              |                              |                    |                    |
|----------------------|-------------------------|-----------------------|--------------------------------|------------------|--------------------|----------------|------------------------------|--------------------|------------------------------|-------------------------------|------------------------------|-----------------|--------------|------------------------------|--------------------|--------------------|
|                      |                         |                       |                                | TO-220F<br>(D60) | TO-220(a)<br>(D56) | TOP-3(b) (D65) |                              | TOP-3F (D67※, D68) |                              | TOP-3E (D69)                  |                              | TOP-3L<br>(D71) | TOP-3D (D66) |                              |                    |                    |
|                      |                         |                       |                                |                  |                    |                | Built-in<br>damper<br>diodes |                    | Built-in<br>damper<br>diodes |                               | Built-in<br>damper<br>diodes |                 |              | Built-in<br>damper<br>diodes |                    |                    |
| Horizontal<br>output | 1200                    | 5                     | 0.3                            |                  |                    |                |                              | 2SC3737※           |                              |                               |                              |                 |              |                              |                    |                    |
|                      |                         | 10                    | 0.3                            |                  |                    |                |                              |                    |                              |                               | 2SC3738                      |                 |              |                              |                    |                    |
|                      | 1400                    | 0.3                   | 1                              |                  | 2SC4576            |                |                              |                    |                              |                               |                              |                 |              |                              |                    |                    |
|                      |                         | 10                    | 0.5                            |                  |                    |                |                              |                    |                              |                               |                              | 2SC4096         |              |                              |                    |                    |
|                      | 1500                    | 1.5                   | 0.8                            |                  | 2SD2310            |                |                              | 2SD1727            | 2SD1735                      | 2SD1844                       |                              |                 |              |                              |                    |                    |
|                      |                         |                       | 1                              |                  | 2SD1734            |                |                              |                    |                              |                               |                              |                 |              |                              |                    |                    |
|                      |                         |                       | 1                              |                  | 2SD1575            |                |                              |                    |                              |                               |                              |                 |              |                              |                    |                    |
|                      |                         | 2.5                   | 0.8                            |                  |                    |                | 2SD1479                      | 2SD1728            | 2SD1576<br>2SD1736           | 2SD1845                       |                              |                 |              |                              |                    |                    |
|                      |                         |                       | 0.8                            |                  |                    |                |                              | 2SD1439            |                              | 2SD1541                       | 2SD2511                      | 2SD2510         |              | 2SD2332                      | 2SD2331<br>2SD2367 |                    |
|                      |                         | 3.5                   | 0.8                            |                  |                    |                |                              | 2SD1729            | 2SD1737                      | 2SD1846                       |                              |                 |              |                              | 2SD2368            |                    |
|                      |                         |                       | 0.8                            |                  |                    |                |                              |                    | 2SD1441                      |                               | 2SD1632                      |                 |              |                              |                    |                    |
|                      |                         | 4                     | 0.8                            |                  |                    |                |                              |                    |                              |                               |                              |                 |              |                              |                    |                    |
|                      |                         |                       | 0.75                           |                  |                    |                |                              |                    |                              |                               |                              |                 |              |                              | 2SD2369            |                    |
|                      |                         | 5                     | 0.8                            |                  |                    |                |                              | 2SD1391            |                              | 2SD1577<br>2SD1738<br>2SD2329 | 2SD1847                      | 2SD2513         | 2SD2512      |                              | 2SD2334            | 2SD2333<br>2SD2370 |
|                      |                         |                       | 0.8                            |                  |                    |                |                              |                    | 2SD1731                      | 2SD1739                       | 2SD1848                      |                 |              |                              |                    |                    |
|                      |                         | 7                     | 0.5                            |                  |                    |                |                              |                    |                              | 2SD2354                       |                              | 2SC5163         |              |                              | 2SD2372            |                    |
|                      |                         |                       | 0.8                            |                  |                    |                |                              |                    | 2SD1732                      | 2SD1850<br>2SD2330            | 2SD1849<br>2SD2057           | 2SD2515         | 2SD2514      |                              | 2SD2336            | 2SD2335<br>2SD2371 |
|                      |                         | 10                    | 0.5                            |                  |                    |                |                              |                    |                              | 2SD2355                       |                              |                 |              |                              |                    |                    |
|                      |                         |                       | 0.6                            |                  |                    |                |                              |                    |                              |                               |                              | 2SC5164         |              | 2SC4111                      | 2SD2373            |                    |
|                      |                         |                       | 0.8                            |                  |                    |                |                              |                    |                              |                               |                              | △ 2SC5166       |              |                              |                    |                    |
|                      |                         | 15                    | 0.5                            |                  |                    |                |                              |                    |                              |                               |                              |                 |              | △ 2SC5235                    |                    |                    |
|                      |                         |                       | 0.5                            |                  |                    |                |                              |                    |                              |                               |                              | 2SC5165         |              | 2SD2356                      |                    |                    |
|                      | 20                      | 0.5                   |                                |                  |                    |                |                              |                    |                              |                               | △ 2SC5167                    |                 |              |                              |                    |                    |
|                      |                         | 0.8                   |                                |                  |                    |                |                              |                    |                              |                               |                              |                 |              |                              |                    |                    |
|                      | 1700                    | 2.5                   | 0.8                            |                  |                    |                |                              |                    |                              |                               |                              | △ 2SD2521       |              |                              |                    |                    |
|                      |                         |                       | 0.8                            |                  |                    |                |                              |                    |                              |                               |                              | △ 2SD2522       |              |                              |                    |                    |
|                      |                         | 4                     | 0.8                            |                  |                    |                |                              |                    |                              |                               |                              | △ 2SD2523       |              |                              |                    |                    |
|                      |                         |                       | 0.8                            |                  |                    |                |                              |                    |                              |                               |                              | △ 2SD2524       |              |                              |                    |                    |

△ Preliminary

(Package Symbol) TOP-3F = TOP-3 Type Full Package, TOP-3 Type Large Package, TO-220(F) = TO-220 Type Pack Package.