

TO-220 Type Power Transistors

TO-220AB, TO-220 (IS) Interchangeability List

F1

| Application           | Type No. |         | Ic<br>(A) | VCEO<br>*VCBO<br>(V) | Pc<br>(Tc=25°C)<br>(W) | Alternates Type No. |         |
|-----------------------|----------|---------|-----------|----------------------|------------------------|---------------------|---------|
|                       | TO-220AB |         |           |                      |                        | TO-220 (IS)         |         |
|                       | NPN      | PNP     |           |                      |                        | NPN                 | PNP     |
| TV chroma output      | 2SC1569  |         | 0.15      | 300                  | 12.5                   |                     |         |
| TV Audio output       | 2SC2242  |         |           |                      | 25                     |                     |         |
| TV Vertical output    | 2SC2073  | 2SA940  | 1.5       | 150                  | 25                     | 2SC3296             | 2SA1304 |
| General purpose       | 2SD1052  |         | 3         | 50                   | 30                     | 2SD1405             |         |
|                       | 2SD1052A |         |           | 50                   | 30                     |                     |         |
|                       | 2SD880   | 2SB834  |           | 60                   | 30                     | 2SD1406             | 2SB1015 |
| TV Horizontal output  | 2SC2233  |         | 4         | *200                 | 40                     |                     |         |
| General purpose       | 2SD526   | 2SB596  |           | 80                   | 30                     | 2SD1408             | 2SB1017 |
|                       | 2SD525   | 2SB595  |           | 5                    | 100                    | 40                  | 2SD1407 |
| TV Horizontal output  | 2SD1069  |         | 7         | *300                 | 40                     | 2SD1404             |         |
| Low VCE (sat)         | 2SC3558  |         | 4         | 60                   | 30                     | 2SC3475             |         |
|                       | 2SC2562  | 2SA1012 | 5         | 50                   | 25                     | 2SC3299             | 2SA1307 |
|                       | 2SC3258  | 2SA1293 |           | 80                   | 30                     | 2SC3540             | 2SA1388 |
|                       | 2SD553   | 2SB553  | 7         | 50                   | 40                     | 2SD1412             | 2SB1019 |
|                       | 2SD843   | 2SB753  |           | 80                   | 40                     | 2SC1411             | 2SB1018 |
|                       | 2SC3257  |         | 10        | 200                  | 40                     |                     |         |
|                       | 2SC3345  | 2SA1328 | 12        | 50                   | 40                     | 2SC3709             | 2SA1451 |
|                       | 2SC3346  | 2SA1329 |           | 80                   | 40                     | 2SC3710             | 2SA1452 |
| Switching regulator   | 2SC2552  |         | 2         | 400                  | 20                     | 2SC3309             |         |
|                       | 2SD841   |         | 3         | 400                  | 40                     | 2SD1571             |         |
|                       | 2SC3148  |         |           | 800                  | 40                     | 2SC3559             |         |
|                       | 2SC2553  |         | 5         | 400                  | 40                     | 2SC3310             |         |
| Darlington transistor | 2SD687   | 2SB677  | 3         | 40                   | 25                     | 2SD1413             | 2SB1023 |
|                       | 2SD1088  |         | 6         | 250                  | 30                     | 2SD1410             |         |
|                       | 2SD798   |         |           | 300                  | 30                     |                     |         |
|                       | 2SD799   |         |           | 400                  | 30                     | 2SD1409             |         |
|                       | 2SD635   | 2SB675  | 7         | 60                   | 40                     | 2SD1417             | 2SB1022 |
|                       | 2SD634   | 2SB674  |           | 80                   | 40                     | 2SD1416             | 2SB1021 |
|                       | 2SD633   | 2SB673  |           | 100                  | 40                     | 2SD1415             | 2SB1020 |