



Low power AF transistors

Transistors AF - NF-Transistoren

| TYPE | RATINGS (at $T_{amb} = 25^{\circ}C$, unless otherwise stated) | | | | | | | CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$, unless otherwise stated) | | | | | | | | | | | | | | GENERAL INFORMATION | | |
|---------|--|------------------------|-----------|-------|-----------|-------------|-----------|--|----------|-------|-------|----------|-----|-----|-----|----|------|-----|------|----------|---------|---------------------------------|--|--|
| | V_{CBO} | V_{CEO} V_{CER} | V_{EBO} | I_C | P_{tot} | T_j | h_{FE} | h_{fe} at 1 kHz | at | | f_T | C_{ob} | at | | at | | F | at | | POLARITY | OUTLINE | NOTES Complementary type | | |
| | V | V | V | mA | mW | $^{\circ}C$ | | | V_{CE} | I_C | MHz | pF | V | V | mA | mA | dB | V | mA | | | | | |
| | max | max | max | max | max | max | min - max | min | V | mA | min | max | V | V | mA | mA | max | V | mA | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| BC318A | 40 | 30 | 5 | 150 | 310 | 135 | 110-220 | 125 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 6 | 5 | 0,2 | N | 116b | | | |
| BC318B | 40 | 30 | 5 | 150 | 310 | 135 | 200-450 | 240 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 6 | 5 | 0,2 | N | 116b | | | |
| BC318C | 40 | 30 | 5 | 150 | 310 | 135 | 400-800 | 450 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 6 | 5 | 0,2 | N | 116b | | | |
| BC319 | 30 | 20 | 5 | 150 | 310 | 135 | 200-800 | 125 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 4 | 5 | 0,2 | N | 116b | BC322 | | |
| BC319B | 30 | 20 | 5 | 150 | 310 | 135 | 200-450 | 240 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 4 | 5 | 0,2 | N | 116b | | | |
| BC319C | 30 | 20 | 5 | 150 | 310 | 135 | 400-800 | 450 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 4 | 5 | 0,2 | N | 116b | | | |
| BC320 | 50 | 45 | 6 | 150 | 310 | 135 | 110-450 | 125 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 6 | 5 | 0,2 | P | 116b | BC317 | | |
| BC320A | 50 | 45 | 6 | 150 | 310 | 135 | 110-220 | 125 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 6 | 5 | 0,2 | P | 116b | | | |
| BC320B | 50 | 45 | 6 | 150 | 310 | 135 | 200-450 | 240 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 6 | 5 | 0,2 | P | 116b | | | |
| BC321 | 40 | 30 | 5 | 150 | 310 | 135 | 110-450 | 125 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 6 | 5 | 0,2 | P | 116b | BC318 | | |
| BC321A | 40 | 30 | 5 | 150 | 310 | 135 | 110-220 | 125 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 6 | 5 | 0,2 | P | 116b | | | |
| BC321B | 40 | 30 | 5 | 150 | 310 | 135 | 200-450 | 240 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 6 | 5 | 0,2 | P | 116b | | | |
| BC321C | 45 | 30 | 5 | 150 | 310 | 150 | 400-800 | 450 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 4 | 5 | 0,2 | P | 116b | | | |
| BC322 | 30 | 20 | 5 | 150 | 310 | 135 | 110-800 | 125 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 4 | 5 | 0,2 | P | 116b | | | |
| BC322B | 30 | 20 | 5 | 150 | 310 | 135 | 200-450 | 240 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 4 | 5 | 0,2 | P | 116b | | | |
| BC322C | 30 | 20 | 5 | 150 | 310 | 135 | 400-800 | 450 | 5 | 2 | 100 | 4 | 10 | 0,5 | 100 | 5 | 4 | 5 | 0,2 | P | 116b | | | |
| BC325 | 60 | 60 | 6 | 50 | 360 | 200 | 40-120 | 5 | 0,01 | 9 | 5 | 0,35 | 1 | 0,1 | 4 | 5 | 0,01 | P | 110a | | | | | |
| BC326 | 60 | 60 | 6 | 50 | 360 | 200 | 100-500 | 5 | 0,01 | 9 | 5 | 0,35 | 1 | 0,1 | 3 | 5 | 0,01 | P | 110a | | | | | |
| BC327 | 45 | 5 | 500 | 625 | 150 | 100-600 | (16) | 1 | 100 | 100' | 8' | 10 | 0,7 | 500 | 50 | | | | P | NS128b | BC337 | | | |
| | 45 | 5 | 800 | 625 | 150 | 160-400 | (25) | 1 | 100 | 100' | 12' | 10 | 0,7 | 500 | 50 | | | | P | NS128b | | | | |
| | 45 | 5 | 800 | 625 | 150 | 250-630 | (40) | 1 | 100 | 100' | 12' | 10 | 0,7 | 500 | 50 | | | | P | NS128b | | | | |
| BC327AP | See | BC327(16) | | | | | | | | | | | | | | | | | | | NS319 | | | |
| BC327BP | See | BC327(25) | | | | | | | | | | | | | | | | | | | NS319 | | | |
| BC327CP | See | BC327(40) | | | | | | | | | | | | | | | | | | | NS319 | | | |
| RC328 | | 25 | 5 | 500 | 625 | 150 | 100-600 | (16) | 1 | 100 | 100' | 8' | 10 | 0,7 | 500 | 50 | | | | P | NS128b | BC338 | | |
| | | 25 | 5 | 800 | 625 | 150 | 160-400 | (25) | 1 | 100 | 100' | 12' | 10 | 0,7 | 500 | 50 | | | | P | NS128b | | | |
| | | 25 | 5 | 800 | 625 | 150 | 250-630 | (40) | 1 | 100 | 100' | 12' | 10 | 0,7 | 500 | 50 | | | | P | NS128b | | | |
| BC328AP | See | BC328(16) | | | | | | | | | | | | | | | | | | | NS319 | | | |
| BC328BP | See | BC328(25) | | | | | | | | | | | | | | | | | | | NS319 | | | |
| BC328CP | See | BC328(40) | | | | | | | | | | | | | | | | | | | NS319 | | | |
| BC329B | 60 | 60 | 6 | 30 | 250 | 150 | 220 | 240 | 5 | 2 | 3 | 10 | 1 | 10 | 0,5 | 2 | 5 | 0,2 | N | NS128b | | | | |
| BC329C | 60 | 60 | 6 | 30 | 250 | 150 | 220 | 450 | 5 | 2 | 3 | 10 | 1 | 10 | 0,5 | 2 | 5 | 0,2 | N | NS128b | | | | |
| BC330B | 45 | 45 | 6 | 30 | 250 | 150 | 220 | 240 | 5 | 2 | 3 | 10 | 1 | 10 | 0,5 | 2 | 5 | 0,2 | N | NS128b | | | | |
| BC330C | 45 | 45 | 6 | 30 | 250 | 150 | 220 | 450 | 5 | 2 | 3 | 10 | 1 | 10 | 0,5 | 2 | 5 | 0,2 | N | NS128b | | | | |
| BC331A | 60 | 60 | 6 | 30 | 250 | 150 | 100 | 125 | 5 | 2 | 3 | 10 | 1 | 10 | 0,5 | 6 | 5 | 0,2 | N | NS128b | | | | |
| BC331B | 60 | 60 | 6 | 30 | 250 | 150 | 100 | 240 | 5 | 2 | 3 | 10 | 1 | 10 | 0,5 | 6 | 5 | 0,2 | N | NS128b | | | | |
| BC331C | 60 | 60 | 6 | 30 | 250 | 150 | 100 | 450 | 5 | 2 | 3 | 10 | 1 | 10 | 0,5 | 6 | 5 | 0,2 | N | NS128b | | | | |
| BC332A | 45 | 45 | 6 | 30 | 250 | 150 | 100 | 125 | 5 | 2 | 3 | 10 | 1 | 10 | 0,5 | 6 | 5 | 0,2 | N | NS128b | | | | |
| BC332B | 45 | 45 | 6 | 30 | 250 | 150 | 100 | 240 | 5 | 2 | 3 | 10 | 1 | 10 | 0,5 | 6 | 5 | 0,2 | N | NS128b | | | | |
| BC332C | 45 | 45 | 6 | 30 | 250 | 150 | 100 | 450 | 5 | 2 | 3 | 10 | 1 | 10 | 0,5 | 6 | 5 | 0,2 | N | NS128b | | | | |
| BC333 | 25 | 25 | 5 | 50 | 310 | 135 | 100-1000 | 5 | 0,1 | 50 | 4 | 5 | 0,6 | 10 | 1 | | | | | N | 116b | BC334 | | |
| BC334 | 25 | 25 | 5 | 50 | 310 | 135 | 100-1000 | 5 | 0,1 | 50 | 4 | 5 | 0,6 | 10 | 1 | | | | | P | 116b | BC333 | | |
| BC335 | 25 | 25 | 5 | 50 | 310 | 135 | 100-1000 | 5 | 0,1 | 50 | 4 | 5 | 0,6 | 10 | 1 | 3 | 5 | 0,2 | N | 116b | BC336 | | | |
| BC336 | 25 | 25 | 5 | 50 | 310 | 135 | 100-1000 | 5 | 0,1 | 50 | 4 | 5 | 0,6 | 10 | 1 | 3 | 5 | 0,2 | P | 116b | BC335 | | | |
| BC337 | 45 | 5 | 500 | 625 | 150 | 100-600 | (16) | 1 | 100 | 200' | 5' | 10 | 0,7 | 500 | 50 | | | | | N | NS128b | BC327 | | |
| BC337A | 45 | 5 | 800 | 625 | 150 | 160-400 | (25) | 1 | 100 | 100' | 12' | 10 | 0,7 | 500 | 50 | | | | | N | NS128b | | | |
| | 45 | 5 | 800 | 625 | 150 | 250-630 | (40) | 1 | 100 | 100' | 12' | 10 | 0,7 | 500 | 50 | | | | | N | NS128b | | | |
| BC337AP | See | BC337(16) | | | | | | | | | | | | | | | | | | | NS319 | | | |
| BC337BP | See | BC337(25) | | | | | | | | | | | | | | | | | | | NS319 | | | |
| BC337CP | See | BC337(40) | | | | | | | | | | | | | | | | | | | NS319 | | | |
| BC338 | | 25 | 5 | 500 | 625 | 150 | 100-600 | (16) | 1 | 100 | 200' | 5' | 10 | 0,7 | 500 | 50 | | | | N | NS128b | BC328 | | |
| | | 25 | 5 | 800 | 625 | 150 | 160-400 | (25) | 1 | 100 | 100' | 12' | 10 | 0,7 | 500 | 50 | | | | N | NS128b | | | |
| | | 25 | 5 | 800 | 625 | 150 | 250-630 | (40) | 1 | 100 | 100' | 12' | 10 | 0,7 | 500 | 50 | | | | N | NS128b | | | |
| BC338AP | See | BC338(16) | | | | | | | | | | | | | | | | | | | NS319 | | | |
| BC338BP | See | BC338(25) | | | | | | | | | | | | | | | | | | | NS319 | | | |
| BC338CP | See | BC338(40) | | | | | | | | | | | | | | | | | | | NS319 | | | |
| BC340 | 40 | 40 | 5 | 500 | 800 | 200 | 40-100 | (6) | 5 | 50 | 100' | 6,5' | 10 | 0,4 | 150 | 15 | | | | N | 112Ba | | | |
| | 40 | 40 | 5 | 500 | 800 | 200 | 63-160 | (10) | 5 | 50 | 100' | 6,5' | 10 | 0,4 | 150 | 15 | | | | N | 112Ba | | | |
| | 40 | 40 | 5 | 500 | 800 | 200 | 100-250 | (16) | 5 | 50 | 100' | 6,5' | 10 | 0,4 | 150 | 15 | | | | N | 112Ba | | | |
| BC341 | 60 | 60 | 5 | 500 | 800 | 200 | 40-100 | (6) | 5 | 50 | 100' | 6,5' | 10 | 0,4 | 150 | 15 | | | | N | 112Ba | | | |
| | 60 | 60 | 5 | 500 | 800 | 200 | 63-160 | (10) | 5 | 50 | 100' | 6,5' | 10 | 0,4 | 150 | 15 | | | | N | 112Ba | | | |
| BC342 | 70 | 60 | 5 | 1000 | 800 | 200 | 20 | 10 | 500 | 100 | 20 | 10 | 0,8 | 300 | 30 | | | | | N | 112a | BC343 | | |
| BC343 | 70 | 60 | 5 | 1000 | 800 | 200 | 20 | 10 | 500 | 100 | 20 | 10 | 0,8 | 300 | 30 | | | | | P | 112a | BC342 | | |
| BC344 | 90 | 80 | 5 | 1000 | 800 | 200 | 20 | 10 | 150 | 100 | 20 | 10 | 0,8 | 150 | 15 | | | | | N | 112a | BC345 | | |
| BC345 | 90 | 80 | 5 | 1000 | 800 | 200 | 20 | 10 | 150 | 100 | 20 | 10 | 0,8 | 150 | 15 | | | | | P | 112a | BC344 | | |

(') typical value
 (") minimum value
 (!) maximum value