

STMicroelectronics Transistors



Products may be RoHS compliant. Check mouser.com for RoHS status.

POWER BIPOLAR TRANSISTORS

◆ Surface Mount Device

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | STMicroelectronics Part No. | Case Type | V _{CEO} (Max.) (V) | I _C (Max.) (A) | V _{CE} (SAT) | | h _{FE} | | f _T | | Price Each | | | | |
|------------------|-----------------------------|---------------|-----------------------------|---------------------------|-----------------------|----------|-----------------|----------|-----------------|----------|------------|------|------|------|------|
| | | | | | Max. (V) | @ IC (A) | Min./Typ./Max. | @ IC (A) | Min./Typ. (MHz) | @ IC (A) | 1 | 10 | 100 | 1000 | |
| PNP | | | | | | | | | | | | | | | |
| ◆ 511-2STR1215 | 2STR1215 | SOT-23 | 15 | 1.5 | 0.85 | 2 | 200/280/560 | 0.5 | - | - | 1.5 | .38 | .272 | .125 | .096 |
| 511-TIP29A | TIP29A | TO-220AB | 60 | 1 | 0.7 | 1 | 15/---/75 | 1 | - | - | - | .61 | .515 | .332 | .266 |
| 511-TIP31A | TIP31A | TO-220AB | 60 | 3 | 1.2 | 3 | 10/---/50 | 3 | - | - | - | .52 | .437 | .266 | .206 |
| 511-TIP120 | TIP120 | TO-220AB | 60 | 5 | 4 | 5 | 1000/---/--- | 3 | - | - | - | .60 | .502 | .306 | .236 |
| 511-D44H8 | D44H8 | TO-220AB | 60 | 10 | 1 | 8 | 60/---/--- | 2 | - | - | - | .90 | .75 | .484 | .387 |
| ◆ 511-MJD3055 | MJD3055T4 | TO-252 | 60 | 10 | 1.1 | 4 | 20/---/100 | 4 | 2/--- | 0.5 | - | .85 | .707 | .456 | .365 |
| 511-MJE3055T | MJE3055T | TO-220AB | 60 | 10 | 8 | 10 | 20/---/70 | 4 | 2 | 0.5 | - | .69 | .573 | .37 | .296 |
| 511-TIP3055 | TIP3055 | TO-247 | 60 | 15 | 3 | 10 | 20/---/70 | 4 | - | - | - | 1.37 | 1.17 | .901 | .628 |
| 511-BD139 | BD139 | SOT-32 | 80 | 1.5 | 0.5 | 0.5 | 40/---/250 | 0.15 | - | - | - | .54 | .448 | .273 | .211 |
| 511-BD679A | BD679A | SOT-32 | 80 | 4 | 2.8 | 2 | 750/---/--- | 2 | - | - | - | .69 | .58 | .374 | .299 |
| 511-BD677 | BD677 | SOT-32 | 60 | 6 | 2.5 | 1.5 | 750/---/--- | 1.5 | - | - | - | .70 | .586 | .378 | .302 |
| ◆ 511-MJD44H11 | MJD44H11T4 | TO-252 | 80 | 8 | 1 | 8 | 40/---/--- | 4 | - | - | - | .51 | .426 | .26 | .201 |
| 511-D44H11 | D44H11 | TO-220AB | 80 | 10 | 1 | 8 | 40/---/--- | 4 | - | - | - | .88 | .738 | .476 | .381 |
| 511-2STW100 | 2STW100 | TO-247 | 80 | 25 | 3.5 | 20 | 300/---/6000 | 20 | - | - | - | 2.76 | 2.22 | 1.78 | 1.28 |
| 511-2STW200 | 2STW200 | TO-247 | 80 | 25 | 3.5 | 20 | 300/---/6000 | 20 | - | - | - | 2.79 | 2.37 | 1.90 | 1.37 |
| 511-TIP29C | TIP29C | TO-220AB | 100 | 1 | 0.7 | 1 | 15/---/75 | 1 | - | - | - | .52 | .437 | .266 | .206 |
| 511-TIP112 | TIP112 | TO-220AB | 100 | 2 | 2.5 | 2 | 500/---/--- | 2 | - | - | - | .56 | .471 | .304 | .243 |
| ◆ 511-MJD112 | MJD112T4 | TO-252 | 100 | 2 | 4 | 4 | 1000/---/12000 | 2 | 25/--- | 0.75 | - | .62 | .484 | .312 | .25 |
| 511-TIP112 | TIP112 | TO-220AB | 100 | 2 | 2.5 | 2 | 500/---/--- | 2 | - | - | - | .56 | .471 | .304 | .243 |
| ◆ 511-MJD31CT4 | MJD31CT4 | TO-252 | 100 | 3 | 1.2 | 3 | 10/---/50 | 3 | - | - | - | .57 | .477 | .29 | .224 |
| 511-TIP31C | TIP31C | TO-220AB | 100 | 3 | 1.2 | 3 | 10/---/50 | 3 | - | - | - | .54 | .451 | .275 | .213 |
| 511-BD681 | BD681 | SOT-32 | 100 | 4 | 2.5 | 1.5 | 750/---/--- | 1.5 | - | - | - | .73 | .608 | .392 | .314 |
| 511-TIP41C | TIP41C | TO-220AB | 100 | 6 | 1.5 | 6 | 15/---/75 | 3 | - | - | - | .61 | .509 | .31 | .24 |
| 511-MJD122 | MJD122T4 | TO-252 | 100 | 8 | 2 | 4 | 1000/---/12000 | 4 | - | - | - | .59 | .493 | .318 | .254 |
| 511-TIP102 | TIP102 | TO-220AB | 100 | 8 | 2.5 | 8 | 1000/---/20000 | 3 | - | - | - | .57 | .477 | .308 | .246 |
| 511-TIP132 | TIP132 | TO-220AB | 100 | 8 | 4 | 6 | 1000/---/15000 | 4 | - | - | - | 1.10 | .941 | .722 | .504 |
| 511-TIP142 | TIP142 | TO-247 | 100 | 10 | 3 | 10 | 500/---/--- | 10 | - | - | - | 1.55 | 1.32 | 1.06 | .768 |
| 511-TIP142T | TIP142T | TO-220AB | 100 | 10 | 3 | 10 | 500/---/--- | 10 | - | - | - | 1.49 | 1.27 | .978 | .682 |
| 511-BDW93C | BDW93C | TO-220AB | 100 | 12 | 3 | 10 | 750/---/20000 | 5 | - | - | - | .94 | .803 | .617 | .43 |
| 511-TIP35C | TIP35C | TO-247 | 100 | 25 | 4 | 25 | 10/---/50 | 15 | 3/--- | 1 | - | 1.71 | 1.38 | 1.10 | .802 |
| 511-2SD1047 | 2SD1047 | TO-3P | 140 | 12 | 0.5 | 5 | 60/---/200 | 1 | ---/20 | 0.5 | - | 3.70 | 3.15 | 2.73 | 1.95 |
| ◆ 511-2STD1665T4 | 2STD1665T4 | TO-252 | 150 | 6 | 0.05 | 0.1 | 150/310/350 | 2 | - | - | - | .91 | .736 | .565 | .394 |
| ◆ 511-MJD47 | MJD47T4 | TO-252 | 250 | 1 | 1 | 1 | 30/---/150 | 0.3 | - | - | - | .64 | .531 | .323 | .25 |
| ◆ 511-MJD340 | MJD340T4 | TO-252 | 300 | 0.5 | - | - | 30/---/240 | 0.05 | - | - | - | .50 | .422 | .257 | .199 |
| ◆ 511-MJD350T4 | MJD350T4 | TO-252 | 300 | 0.5 | - | - | 30/---/240 | 0.05 | - | - | - | .50 | .422 | .257 | .199 |
| 511-MJE340 | MJE340 | SOT-32 | 300 | 0.5 | - | - | 30/---/240 | 0.05 | - | - | - | .56 | .469 | .286 | .221 |
| 511-ST901T | ST901T | TO-220AB | 350 | 4 | 2 | 2 | 1800/---/3800 | 2 | - | - | - | .94 | .803 | .617 | .43 |
| 511-BU941ZT | BU941ZT | TO-220AB | 350 | 15 | 1.8 | 10 | 300/---/--- | 5 | - | - | - | 3.24 | 2.75 | 2.38 | 1.70 |
| 511-BUB941ZTT4 | BUB941ZTT4 | TO-263 | 350 | 15 | 1.8 | 8 | 300/---/--- | 5 | - | - | - | 3.23 | 2.59 | 2.36 | 1.61 |
| 511-TIP50 | TIP50 | TO-220AB | 400 | 1 | 1 | 1 | 30/---/150 | 0.3 | 10/--- | 10 | - | .65 | .542 | .35 | .28 |
| 511-STU13005N | STU13005N | IPAK | 400 | 3 | 0.5 | 1 | 10/---/30 | 1 | - | - | - | .49 | .408 | .249 | .192 |
| 511-BU931P | BU931P | TO-247 | 400 | 15 | 1.6 | 7 | 300/---/--- | 5 | - | - | - | 2.93 | 2.49 | 1.99 | 1.44 |
| 511-BUF420AW | BUF420AW | TO-247 | 450 | 30 | 2 | 20 | ---/---/--- | - | - | - | - | 9.45 | 8.50 | 6.99 | 4.93 |
| ◆ 511-STR1550 | STR1550 | SOT-23-3 | 500 | 0.5 | 0.2 | 0.02 | 100/---/300 | 0.1 | - | - | - | .42 | .323 | .175 | .131 |
| 511-STX616-AP | STX616-AP | TO-92 | 500 | 1.5 | 1 | 1 | 4/---/--- | 1.5 | - | - | - | .45 | .379 | .231 | .179 |
| 511-BU508AF | 511-BU508AF | ISOWATT-218FX | 700 | 8 | 1 | 4.5 | 10/---/30 | 0.1 | - | - | - | 1.92 | 1.55 | 1.24 | .899 |
| 511-BU508AW | BU508AW | TO-247 | 700 | 8 | 1 | 4.5 | 10/---/30 | 0.1 | - | - | - | 2.66 | 2.26 | 1.96 | 1.40 |
| 511-MD1803DFP | MD1803DFP | TO-220FP | 700 | 10 | 2.8 | 5.5 | ---/18/--- | 1 | - | - | - | 2.11 | 1.70 | 1.36 | .99 |
| 511-MD2310FX | MD2310FX | TO-3PF | 700 | 14 | 2.5 | 7 | 6/---/8.5 | 7 | - | - | - | 2.47 | 2.10 | 1.68 | 1.21 |
| 511-BUL216 | BUL216 | TO-220AB | 800 | 4 | 3 | 2 | 12/---/40 | 0.4 | - | - | - | 2.64 | 2.25 | 1.95 | 1.39 |
| 511-BUL416T | BUL416T | TO-220AB | 800 | 6 | 1.5 | 4 | 18/---/32 | 0.7 | - | - | - | 2.75 | 2.34 | 2.02 | 1.45 |
| 511-STN0214 | STN0214 | SOT-223 | 1200 | 20 | 0.1 | 0.01 | ---/20/--- | 0.001 | - | - | - | .86 | .742 | .57 | .397 |
| PNP | | | | | | | | | | | | | | | |
| 511-TIP125 | TIP125 | TO-220AB | -60 | -5 | -4 | -5 | 1000/---/--- | -3 | - | - | - | .60 | .502 | .306 | .236 |
| 511-TIP42A | TIP42A | TO-220AB | -60 | -6 | -1.5 | -6 | 15/---/75 | -3 | - | - | - | .85 | .707 | .456 | .365 |
| 511-MJE2955T | MJE2955T | TO-220AB | -60 | -10 | -8 | -10 | 20/---/70 | -4 | 2/--- | -0.5 | - | .69 | .573 | .37 | .296 |
| 511-TIP2955 | TIP2955 | TO-247 | -60 | -15 | -3 | -10 | 20/---/70 | -4 | - | - | - | 1.84 | 1.49 | 1.19 | .864 |
| 511-BD140 | BD140 | SOT-32 | -80 | -1.5 | -0.5 | -0.5 | 40/---/250 | -0.15 | - | - | - | .54 | .455 | .277 | .214 |
| 511-D45H11 | D45H11 | TO-220AB | -80 | -10 | -1.5 | -8 | 40/---/--- | -4 | - | - | - | .92 | .745 | .572 | .399 |
| ◆ 511-MJD32C | MJD32CT4 | TO-252 | -100 | -3 | -1.2 | -3 | 10/---/50 | -3 | - | - | - | .42 | .354 | .216 | .167 |
| 511-TIP32C | TIP32C | TO-220AB | -100 | -3 | -1.2 | -3 | 10/---/50 | -3 | - | - | - | .54 | .451 | .275 | .213 |
| 511-TIP107 | TIP107 | TO-220AB | -100 | -8 | -2.5 | -8 | 1000/---/20000 | -3 | - | - | - | .60 | .502 | .324 | .259 |
| 511-TIP137 | TIP137 | TO-220AB | -100 | -8 | -4 | -6 | 1000/---/15000 | -4 | - | - | - | 1.06 | .91 | .699 | .487 |
| 511-TIP147 | TIP147 | TO-247 | -100 | -10 | -3 | -10 | 500/---/--- | -10 | - | - | - | 1.76 | 1.50 | 1.20 | .871 |
| 511-BDW94C | BDW94C | TO-220AB | -100 | -12 | -4 | -10 | 750/---/20000 | -5 | - | - | - | .73 | .608 | .392 | .314 |
| 511-TIP36C | TIP36C | TO-247 | -100 | -25 | -4 | -25 | 10/---/50 | -15 | 3/--- | -1 | - | 1.75 | 1.41 | 1.13 | .819 |
| 511-MJE350 | MJE350 | SOT-32 | -300 | -0.5 | - | - | 30/---/240 | -0.05 | - | - | - | .52 | .433 | .264 | .204 |
| ◆ 511-STR2550 | STR2550 | SOT-23-3 | -500 | -0.5 | -0.3 | -0.5 | 100/---/300 | -0.5 | - | - | - | .42 | .323 | .175 | .131 |
| 511-STN9260 | STN9260 | SOT-223 | -600 | -0.5 | -1 | -10 | ---/140/--- | -1 | - | - | - | .74 | .62 | .40 | .32 |
| ◆ 511-STN9360 | STN9360 | SOT-223 | -600 | -0.5 | -1 | -10 | 170/200/--- | -1 | - | - | - | .90 | .753 | .486 | .389 |

RF POWER TRANSISTOR

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | STMicroelectronics Part No. | Case Type | V(BR)DSS (Max.) (V) | I _D (Max.) (A) | IDSS (Max.) (µA) | POUT (Min.) (W) | G _p (Typ.) (dB) | V _{DS} (ON) | | Price Each | | |
|--------------------|-----------------------------|-----------|---------------------|---------------------------|------------------|-----------------|----------------------------|----------------------|--------------------|------------|--------|--------|
| | | | | | | | | Max. (V) | @ V _G S | 1 | 10 | 100 |
| 511-STAC250V2-500E | STAC250V2-500E | STAC177B | 900 | 7 | 1 | 3.5 | 21.5 | 5 | 10 | 130.04 | 121.03 | 109.43 |

SMALL SIGNAL TRANSISTORS

◆ Surface Mount Device

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | STMicroelectronics Part No. | Case Type | V _{CEO} (Max.) (V) | I _C (Max.) (A) | V _{CE} (SAT) | | h _{FE} | | f _T | | Price Each | | | |
|------------------|-----------------------------|-----------|-----------------------------|---------------------------|-----------------------|----------|-----------------|----------|-----------------|----------|------------|------|------|------|
| | | | | | Max. (V) | @ IC (A) | Min./Typ./Max. | @ IC (A) | Min./Typ. (MHz) | @ IC (A) | 1 | 10 | 100 | 1000 |
| PNP | | | | | | | | | | | | | | |
| ◆ 511-MJD127 | MJD127T4 | TO-252 | -100 | -8 | -4 | -8 | 1000/---/12000 | -4 | 100/--- | -8 | .56 | .469 | .286 | .221 |