

| TRANSISTOR NUMBER | P M O A L T | PACK- AGE | LEAD INFO | V <sub>CB</sub> MAX | V <sub>CE</sub> MAX | V <sub>EB</sub> MAX | I <sub>c</sub> MAX | T <sub>J</sub> MAX | P TOT  | F <sub>r</sub> MIN | C <sub>OB</sub> MAX | H <sub>FE</sub> | H <sub>FE</sub> BIAS | USE | MFR | ALTERNATIVES AND NOTES |               |
|-------------------|-------------|-----------|-----------|---------------------|---------------------|---------------------|--------------------|--------------------|--------|--------------------|---------------------|-----------------|----------------------|-----|-----|------------------------|---------------|
| 2SD156            | N S         | TO66      | L43       | 200V                | 200V                | 3V                  | 100mA              | 150C               | 4WC    | 10M                | -                   | 20mn            | 50mA                 | RHE | FUJ | BUX67A 2N3584          |               |
| 2SD157            | N S         | TO66      | L43       | 300V                | 300V                | 3V                  | 100mA              | 150C               | 4WC    | 10M                | -                   | 20mn            | 50mA                 | RHE | FUJ | BUX67C 2N3585          |               |
| 2SD158            | N S         | TO66      | L43       | 200V                | 200V                | 3V                  | 1A                 | 175C               | 30WC   | 7M                 | -                   | 20mn            | 500mA                | RHE | FUJ | BUX67A 2N3584          |               |
| 2SD159            | N S         | TO66      | L43       | 300V                | 300V                | 3V                  | 1A                 | 175C               | 30WC   | 7M                 | -                   | 20mn            | 500mA                | RHE | FUJ | BUX67B 2N3585          |               |
| 2SD160            | N S         | TO8       | L12       | 100V                | 60V                 | 8V                  | 1500mA             | 175C               | 25WC   | -                  | -                   | 20mn            | 750mA                | AHH | -   | 2N1486                 |               |
| 2SD161            | N S         | TO3       | L05       | 120V                | 60V                 | 12V                 | 10A                | 175C               | 100WC  | 1M                 | -                   | 15mn            | 5A                   | AHH | -   | BDX50 2N3773           |               |
| 2SD162            | N G         | OBS       | OBS       | 20V                 | 15V                 | 2V                  | 30mA               | 85C                | 65mWF  | 1M                 | -                   | 30mn            | 30mA                 | AMG | FUJ | AC127 2N2430           |               |
| 2SD163            | N S         | TO3       | L05       | 60V                 | 40V                 | 10V                 | 10A                | -                  | 100WC  | 1M                 | -                   | 15mn            | 1A                   | AHG | SAK | BDY20 2N3055           |               |
| 2SD164            | N S         | TO3       | L05       | 100V                | 55V                 | 10V                 | 10A                | -                  | 100WC  | 1M                 | -                   | 15mn            | 1A                   | AHG | SAK | BDY20 2N3055           |               |
| 2SD165            | N S         | TO3       | L05       | 150V                | 70V                 | 10V                 | 10A                | -                  | 100WC  | 1M                 | -                   | 15mn            | 1A                   | AHH | SAK | BDX50 2N3773           |               |
| 2SD166            | N S         | TO3       | L05       | 200V                | 85V                 | 10V                 | 10A                | -                  | 100WC  | 1M                 | -                   | 15mn            | 1A                   | AHH | SAK | BDX50 2N3773           |               |
| 2SD167            | N G         | TO1       | L02       | 20V                 | 20V                 | 2V                  | 500mA              | 85C                | 200mWF | 4M                 | -                   | 50mn            | 150mA                | AMG | FUJ | AC127 2N2430           |               |
| 2SD168            | N S         | TO3       | L05       | 80V                 | 60V                 | 6V                  | 10A                | 175C               | 50WC   | -                  | -                   | 1Kmn            | 5A                   | RHD | -   | 2N6386                 |               |
| 2SD170            | N G         | TO1       | L02       | 25V                 | 25V                 | 6V                  | 500mA              | 85C                | 200mWF | 10M                | -                   | 60mn            | 150mA                | AMG | HIT | AC176 2N2430           |               |
| 2SD170A           | N G         | TO1       | L02       | 30V                 | 25V                 | 12V                 | 500mA              | 85C                | 200mWF | 10M                | -                   | 60mn            | 150mA                | AMG | HIT | AC176 2N2430           |               |
| 2SD171            | N S         | TO3       | L05       | 450V                | -                   | 6V                  | 3500mA             | 150C               | 125WC  | -                  | -                   | 30mn            | 1A                   | AHE | -   | BUX14 2N5157           |               |
| 2SD171-2          | N S         | TO3       | L05       | 600V                | 200V                | -                   | 3500mA             | 150C               | 125WC  | 2500K              | -                   | 285P            | 30/100               | 1A  | AHE | SOY                    | BUX17C 2N6308 |
| 2SD172            | N S         | TO3       | L05       | 60V                 | 40V                 | 6V                  | 10A                | 175C               | 100WC  | 500K               | -                   | 10mn            | 5A                   | AHG | FUJ | BDY20 2N3055           |               |
| 2SD173            | N S         | TO3       | L05       | 100V                | 60V                 | 6V                  | 10A                | 175C               | 100WC  | 500K               | -                   | 10mn            | 5A                   | AHG | FUJ | BDY20 2N3055           |               |
| 2SD174            | N S         | TO3       | L05       | 60V                 | 40V                 | 6V                  | 5A                 | 175C               | 50WC   | 500K               | -                   | 10mn            | 5A                   | AHG | FUJ | BDY20 2N3055           |               |
| 2SD175            | N S         | TO3       | L05       | 100V                | 60V                 | 6V                  | 5A                 | 175C               | 50WC   | 500K               | -                   | 10mn            | 5A                   | AHG | FUJ | BDY20 2N3055           |               |
| 2SD175M           | N S         | TO3       | L05       | 100V                | 60V                 | 6V                  | 5A                 | 175C               | 50WC   | 500K               | -                   | 15/45           | 5A                   | AHG | FUJ | BD130 2N3055           |               |
| 2SD176            | N S         | TO3       | L05       | 90V                 | 50V                 | 12V                 | 10A                | 175C               | 100WC  | 500K               | -                   | 10mn            | 5A                   | AMG | FUJ | BDY20 2N3055           |               |
| 2SD177            | N S         | TO3       | L05       | 120V                | 70V                 | 12V                 | 10A                | 175C               | 100WC  | 500K               | -                   | 10mn            | 5A                   | AHH | FUJ | BDX50 2N3773           |               |
| 2SD177M           | N S         | TO3       | L05       | 120V                | 70V                 | 12V                 | 10A                | 175C               | 100WC  | -                  | -                   | 15/45           | 5A                   | AHH | FUJ | BDY90 2N5759           |               |
| 2SD178            | N G         | TO1       | L02       | 20V                 | 20V                 | 6V                  | 300mA              | 75C                | 225mWF | 1M                 | -                   | 40mn            | 300mA                | AMG | MAT | AC176 2N2430           |               |
| 2SD178A           | N G         | TO1       | L02       | 40V                 | 35V                 | 6V                  | 300mA              | 75C                | 225mWF | 1M                 | -                   | 40mn            | 300mA                | AMG | MAT | AC176 2N2430           |               |
| 2SD179            | N S         | SPEC      | -         | 300V                | 300V                | 6V                  | 40A                | 175C               | 580WC  | -                  | -                   | 10/100          | 20A                  | AHE | NEC | -                      |               |
| 2SD180            | N S         | TO3       | L05       | 80V                 | 60V                 | 7V                  | 5A                 | 150C               | 50WC   | 10M                | -                   | 30mn            | 5A                   | RHG | NEC | BDY24 2N3448           |               |
| 2SD181            | N S         | TO3       | L05       | 150V                | 100V                | 7V                  | 15A                | 175C               | 100WC  | 5M                 | -                   | 30/160          | 5A                   | AHH | NEC | -                      |               |
| 2SD182            | N S         | TO8       | L12       | 40V                 | 30V                 | 12V                 | 1A                 | 175C               | 10WC   | 800K               | -                   | 15mn            | 750mA                | AHG | FUJ | 2N1486                 |               |
| 2SD183            | N S         | TO8       | L12       | 100V                | 55V                 | 12V                 | 1A                 | 175C               | 10WC   | 800K               | -                   | 15mn            | 750mA                | AHG | FUJ | 2N1486                 |               |
| 2SD184            | N S         | TO8       | L12       | 60V                 | 40V                 | 12V                 | 1500mA             | 175C               | 25WC   | 800K               | -                   | 20mn            | 750mA                | AHG | FUJ | 2N1486                 |               |
| 2SD185            | N S         | TO8       | L12       | 100V                | 55V                 | 12V                 | 1500mA             | 175C               | 25WC   | 800K               | -                   | 20mn            | 750mA                | AHG | FUJ | 2N1486                 |               |
| 2SD186            | N G         | TO1       | L02       | 25V                 | 20V                 | 12V                 | 150mA              | 85C                | 200mWF | 500K               | -                   | 50mn            | 10mA                 | AMG | SAN | AC176 2N2430           |               |
| 2SD187            | N G         | TO1       | L02       | 25V                 | 20V                 | 12V                 | 150mA              | 85C                | 200mWF | 500K               | -                   | 50mn            | 30mA                 | AMG | SAN | AC176 2N2430           |               |
| 2SD188            | N S         | TO3       | L05       | 100V                | 70V                 | 5V                  | 5A                 | 150C               | 60WC   | -                  | -                   | 30mn            | 3A                   | AHH | -   | BDX11 2N3442           |               |
| 2SD189            | N S         | TO3       | L05       | 80V                 | 60V                 | 5V                  | 5A                 | 165C               | 50WC   | 20M                | -                   | 20mn            | 5A                   | RHG | MAT | BDY24 2N3448           |               |
| 2SD189A           | N S         | TO3       | L05       | 120V                | 100V                | 5V                  | 5A                 | 165C               | 50WC   | 20M                | -                   | 20mn            | 5A                   | RHE | -   | BDY25 2N6472           |               |
| 2SD190            | N S         | TO5       | L04       | 300V                | -                   | 3V                  | 100mA              | 150C               | 4WC    | -                  | -                   | 30mn            | 50mA                 | AME | -   | BF259 2N3439           |               |
| 2SD191            | N G         | TO5       | L04       | 30V                 | 24V                 | 12V                 | 150mA              | 75C                | 150mWF | -                  | -                   | 30mn            | 50mA                 | AMG | -   | AC127 2N2430           |               |
| 2SD192            | N G         | TO5       | L04       | 30V                 | 24V                 | 12V                 | 150mA              | 75C                | 150mWF | -                  | -                   | 30mn            | 50mA                 | AMG | -   | AC127 2N2430           |               |
| 2SD193            | N G         | TO5       | L04       | 32V                 | 24V                 | 12V                 | 400mA              | 85C                | 250mWF | -                  | -                   | 50mn            | 150mA                | AMG | -   | AC127 2N2430           |               |
| 2SD194            | N G         | TO5       | L04       | 32V                 | 24V                 | 12V                 | 400mA              | 85C                | 250mWF | -                  | -                   | 30mn            | 150mA                | AMG | -   | AC127 2N2430           |               |
| 2SD195            | N G         | TO1       | L02       | 20V                 | 20V                 | 15V                 | 50mA               | 85C                | 150mWF | 1M                 | -                   | 30mn            | 50mA                 | ALG | FUJ | AC176 2N2430           |               |
| 2SD196            | N S         | TO36      | L13       | 100V                | 50V                 | 12V                 | 10A                | 175C               | 125WC  | -                  | -                   | 10mn            | 5A                   | AHG | FUJ | BLY17 2N2016           |               |
| 2SD196A           | N S         | TO36      | L13       | 100V                | 50V                 | 12V                 | 10A                | 175C               | 150WC  | -                  | -                   | 10mn            | 5A                   | AHG | FUJ | BLY17 2N2016           |               |
| 2SD197            | N S         | TO36      | L13       | 130V                | 70V                 | 12V                 | 10A                | 175C               | 125WC  | -                  | -                   | 10mn            | 5A                   | AHH | FUJ | BLY17 2N2016           |               |
| 2SD197A           | N S         | TO36      | L13       | 130V                | 70V                 | 12V                 | 10A                | 175C               | 150WC  | -                  | -                   | 10mn            | 5A                   | AHG | FUJ | BLY17 2N2016           |               |
| 2SD198            | N S         | TO3       | L05       | 300V                | 300V                | 6V                  | 1A                 | 150C               | 25WC   | 10M                | -                   | 30mn            | 500mA                | AME | MAT | BU126 2N5157           |               |
| 2SD199            | N S         | TO3       | L05       | 800V                | 550V                | 6V                  | 500mA              | 150C               | 25WC   | 10M                | -                   | 30mn            | 200mA                | AME | MAT | BU113 2N5157           |               |
| 2SD200            | N S         | TO3       | L05       | 1500V               | 700V                | 5V                  | 2500mA             | 120C               | 10WC   | 4M                 | -                   | 2mn             | 2A                   | TLE | MAT | BU208                  |               |
| 2SD200A           | N S         | TO3       | L05       | 1500V               | -                   | 5V                  | 2500mA             | 125C               | 10WC   | -                  | -                   | 2.5mn           | 2A                   | TLE | MAT | BU308                  |               |
| 2SD201            | N S         | TO3       | L05       | 90V                 | 70V                 | 7V                  | 6A                 | 150C               | 50WC   | 4M                 | -                   | 25mn            | 2A                   | AHH | SAK | BDY20 2N3055           |               |
| 2SD202            | N S         | TO3       | L05       | 110V                | 90V                 | 7V                  | 6A                 | 150C               | 50WC   | 4M                 | -                   | 25mn            | 2A                   | AHH | SAK | BDX50 2N3773           |               |
| 2SD203            | N S         | TO3       | L05       | 130V                | 100V                | 7V                  | 6A                 | 150C               | 50WC   | 4M                 | -                   | 25mn            | 2A                   | AHH | SAK | BDX50 2N3773           |               |
| 2SD204            | N S         | TO37      | L47       | 60V                 | 40V                 | 5V                  | 700mA              | 150C               | 9WC    | -                  | -                   | 40mn            | 300mA                | AMG | SAK | 2N2197                 |               |
| 2SD205            | N S         | TO5       | L04       | 60V                 | 40V                 | 5V                  | 700mA              | 150C               | 1WF    | -                  | -                   | 40mn            | 300mA                | AMG | -   | BFY50 2N2297           |               |
| 2SD206            | N S         | TO3       | L05       | 50V                 | 30V                 | 8V                  | 10A                | 150C               | 150WC  | -                  | -                   | 10mn            | 5A                   | AHG | -   | BDY20 2N3055           |               |
| 2SD207            | N S         | TO3       | L05       | 100V                | 60V                 | 8V                  | 10A                | 150C               | 150WC  | -                  | -                   | 10mn            | 5A                   | AHG | -   | BDY20 2N3055           |               |
| 2SD208            | N S         | TO3       | L05       | 150V                | 80V                 | 8V                  | 10A                | 150C               | 150WC  | -                  | -                   | 10mn            | 5A                   | -   | -   | BDX50 2N3773           |               |
| 2SD211            | N S         | TO3       | L05       | 60V                 | 40V                 | 7V                  | 10A                | 150C               | 100WC  | 4M                 | -                   | 20mn            | 3A                   | AHG | SAK | BDY20 2N3055           |               |
| 2SD212            | N S         | TO3       | L05       | 90V                 | 60V                 | 7V                  | 10A                | 150C               | 100WC  | 4M                 | -                   | 20mn            | 3A                   | AHG | SAK | BDY20 2N3055           |               |
| 2SD213            | N S         | TO3       | L05       | 110V                | 80V                 | 7V                  | 10A                | 150C               | 100WC  | 4M                 | -                   | 20mn            | 3A                   | AHH | SAK | BDX50 2N3773           |               |
| 2SD214            | N S         | TO3       | L05       | 130V                | 100V                | 7V                  | 10A                | 150C               | 100WC  | 4M                 | -                   | 20mn            | 3A                   | AHG | SAK | BDX50 2N3773           |               |
| 2SD215            | N S         | TO5       | L04       | 40V                 | 30V                 | 6V                  | 1A                 | 175C               | 800mWF | -                  | -                   | 30mn            | 500mA                | AMG | -   | BFY50 2N2297           |               |
| 2SD216            | N S         | TO5       | L04       | 60V                 | 40V                 | 6V                  | 1A                 | 175C               | 800mWF | -                  | -                   | 30mn            | 500mA                | AMG | -   | BFY50 2N2297           |               |
| 2SD217            | N S         | TO3       | L05       | 120V                | 80V                 | 7V                  | 7A                 | 150C               | 60WC   | -                  | -                   | 20mn            | 4A                   | AHH | -   | BDX50 2N3773           |               |
| 2SD218            | N S         | TO3       | L05       | 120V                | 100V                | 7V                  | 7A                 | 150C               | 60WC   | -                  | -                   | 20mn            | 4A                   | AHH | -   | BDX50 2N3773           |               |
| 2SD219            | N S         | TO5       | L04       | 40V                 | 30V                 | 7V                  | 1A                 | 150C               | 500mWF | 4M                 | -                   | 40mn            | 200mA                | AMG | SAK | BFY50 2N2297           |               |
| 2SD220            | N S         | TO5       | L04       | 80V                 | 60V                 | 7V                  | 1A                 | 150C               | 500mWF | 4M                 | -                   | 40mn            | 200mA                | AMH | SAK | BSW66 2N4001           |               |
| 2SD221            | N S         | TO5       | L04       | 110V                | 80V                 | 7V                  | 1A                 | 150C               | 500mWF | 4M                 | -                   | 40mn            | 200mA                | AMH | SAK | BSW66 2N4001           |               |
| 2SD222            | N S         | TO37      | L47       | 40V                 | 30V                 | 7V                  | 1500mA             | 150C               | 10WC   | 4M                 | -                   | 40mn            | 500mA                | AHG | -   | 2N2197                 |               |
| 2SD223            | N S         | TO37      | L47       | 80V                 | 50V                 | 7V                  | 1500mA             | 150C               | 10WC   | 4M                 | -                   | 30mn            | 500mA                | AHG | -   | 2N2197                 |               |
| 2SD224            | N S         | TO37      | L47       | 110V                | 70V                 | 7V                  | 1500mA             | 150C               | 10WC   | 4M                 | -                   | 20mn            | 500mA                | AHH | -   | 2N2197                 |               |