

# 5. RECTIFIERS

IN ORDER OF (1) PIV, (2) MAX AVG FWD CURRENT  
(3) TEMPERATURE, and (4) TYPE No.

| LINE No. | TYPE No.    | PIV (V) | MAX AVG FWD DC CURRENT |                    | MAX RATINGS @ 25°C |                 |           | MAXIMUM FORWARD VOLTAGE DROP |                    |                       | MAX. REVERSE CURRENT |  |  | AVALANCHE RATINGS |                              | DESCRIPTION | DWG. No. |                |                 |
|----------|-------------|---------|------------------------|--------------------|--------------------|-----------------|-----------|------------------------------|--------------------|-----------------------|----------------------|--|--|-------------------|------------------------------|-------------|----------|----------------|-----------------|
|          |             |         | I <sub>o</sub> (A)     | I <sub>o</sub> (A) | PEAK 1 Cy (A)      | PULSE WIDTH (s) | DISS. (W) | MAX. TEMP (°C)               | V <sub>f</sub> (V) | at I <sub>f</sub> (A) | TEMP (°C)            | I <sub>r</sub> @ 25°C & V <sub>r</sub> (A) | I <sub>r</sub> at T & V <sub>r</sub> (A) | TEMP T (°C)       | TEST VOLT V <sub>r</sub> (V) |             |          | MAX V BKN. (V) | MIN SLOPE (A/V) |
|          |             |         |                        |                    |                    |                 |           |                              |                    |                       |                      |  |  |                   |                              |             |          |                |                 |
| 1#       | S5VB40      | 400     | 3.5                    | 40A                | 200                |                 | 150J      | 1.05                         | 3.0                | 25                    | 10u                  | 1.0m                                       | 100                                      | 400               |                              |             | Si       | C188b          |                 |
| 2        | 1N3572      | 400     | 3.5                    | 85C                | 35                 | 8.3m            | 165C      | 1.3                          | 3.5                | 85C                   | 300u                 | 400u                                       | 150C                                     | 400               |                              |             | Si       | D04            |                 |
| 3        | 1N2681      | 400     | 3.6                    | 25A                | 15                 | 8.3m            | 165A      | 1.3                          | 3.6                | 25A                   | 300u                 | 1.0m                                       | 100                                      | 400               |                              |             | Si       | M126a          |                 |
| 4        | 1N2746      | 400     | 3.6                    | 25A                | 15                 | 8.3m            | 165A      | 1.3                          | 3.6                | 25A                   | 300u                 | 1.0m                                       | 100                                      | 400               |                              |             | Si       | M126c          |                 |
| 5        | 1N1921      | 400     | 4.0                    | 25                 | 30                 | 16m             | 250       | 1.0                          | 1.0                | 25                    | 10u                  | 1.0m                                       | 100                                      | 400               |                              |             | Si       | S82a           |                 |
| 6        | 400R4B      | 400     | 4.0                    | 25                 | 250                |                 | 175       | 2.0                          | 4.0                | 25                    | 10u                  | 1.0m                                       | 100                                      | 400               |                              |             | Si       |                |                 |
| 7#       | BY194       | 400     | 4.0                    | 25                 | 75                 | 10m             | 150J      | 1.3                          | 3.0                | 25                    | 10u                  | 1.0m                                       | 100                                      | 400               |                              |             | Si       | S441a          |                 |
| 8        | UT4040      | 400     | 4.0                    | 25                 | 100                | 8.3m            | 175A      | 1.0                          | 3.0                | 25                    | 5.0u                 | 100u                                       | 100                                      | 400               |                              |             | Si       | A196k          |                 |
| 9        | 1N2515      | 400     | 4.0                    | 30A                | 30                 |                 | 165       | 1.1                          | 1.5                | 25                    | 2.0u                 | 3.0m                                       | 125C                                     | 400               |                              |             | Si       | D04A           |                 |
| 10       | 1N2521      | 400     | 4.0                    | 30C                | 25                 |                 | 150C      |                              |                    |                       |                      |  | 150C                                     | 400               |                              |             | Si       | D04            |                 |
| 11#      | G4004       | 400     | 4.0                    | 125C               | 100                | 10m             | 150J      | 1.2                          | 13                 | 25C                   | 3.0m                 | 3.0m                                       | 125C                                     | 400               |                              |             | Si       | D04            |                 |
| 12#      | P4004       | 400     | 4.0                    | 125C               | 100                | 10m             | 150J      | 1.2                          | 13                 | 25C                   | 3.0m                 | 3.0m                                       | 125C                                     | 400               |                              |             | Si       | D04            |                 |
| 13       | 450R4B      | 400     | 4.5                    | 25                 | 250                |                 | 175       | 2.0                          | 4.5                | 25                    | 10u                  | 1.0m                                       | 100                                      | 400               |                              |             | Si       | S95a           |                 |
| 14#      | S15VB40     | 400     | 4.5                    | 40A                | 200                |                 | 150J      | 1.05                         | 7.5                | 25A                   | 10u                  | 1.0m                                       | 100                                      | 400               |                              |             | Si       | C189           |                 |
| 15       | 1N1615      | 400     | 5.0                    |                    |                    |                 | 175A      | 1.5                          | 10                 |                       |                      |  | 25A                                      | 400               |                              |             | Si       | D04            |                 |
| 16#      | D246B       | 400     | 5.0                    |                    |                    |                 | 125C      | 1.5                          | 5.0                |                       | 3.0m                 | 3.0m                                       | 100A                                     | 400               |                              |             | Si       | S495           |                 |
| 17       | 1N2234      | 400     | 5.0                    | 25                 | 20                 |                 | 150       | .60                          | 1.5                | 25                    | 500u                 | 150  | 400                                      |                   |                              |             | Si       | D04            |                 |
| 18       | 1N2234A     | 400     | 5.0                    | 25                 | 100                |                 | 150       | .60                          | 5.0                | 25                    | 350u                 | 150  | 400                                      |                   |                              |             | Si       | D04            |                 |
| 19       | 1N2235      | 400     | 5.0                    | 25                 | 20                 |                 | 150       | .60                          | 1.5                | 25                    | 500u                 | 150  | 400                                      |                   |                              |             | Si       | S35            |                 |
| 20       | 1N2235A     | 400     | 5.0                    | 25                 | 100                |                 | 150       | .60                          | 5.0                | 25                    | 350u                 | 150  | 400                                      |                   |                              |             | Si       | S35            |                 |
| 21       | 500R4B      | 400     | 5.0                    | 25                 | 250                |                 | 175       | 2.0                          | 5.0                | 25                    | 10u                  | 1.0m                                       | 100                                      | 400               |                              |             | Si       |                |                 |
| 22#      | SKN5/04     | 400     | 5.0                    | 45A                | 190                | 10m             | 180J      | 1.2                          | 10                 | 25J                   | 100u                 |  | 280                                      |                   |                              |             | Si       | S352b          |                 |
| 23       | PE401       | 400     | 5.0                    | 50                 | 100                | 8.3m            | 25        | 1.0                          | 2.5                | 25                    | 5.0u                 |  | 400                                      |                   |                              |             | Si       | M40b           |                 |
| 24       | S5A4        | 400     | 5.0                    | 50A                | 300                | 8.3m            | 175C      | 1.0                          | 5.0                | 25A                   | 1.0u                 |  | 400                                      |                   |                              |             | Si       | A1ey           |                 |
| 25       | M5E5        | 400     | 5.0                    | 55A                | 300                |                 | 175A      | 1.1                          | 5.0                | 50                    | 25u                  |  | 400                                      |                   |                              |             | Si       | A1ep           |                 |
| 26       | SPD9002     | 400     | 5.0                    | 55C                | 300                |                 | 175J      | 1.0                          | 5.0                | 25J                   | 10u                  |  | 400                                      |                   |                              |             | Si       | A52d           |                 |
| 27       | 1N1063      | 400     | 5.0                    | 100A               | 60                 | 4.0m            | 170C      | 1.5                          | 5.0                | 25A                   | 1.0m                 |  | 400                                      |                   |                              |             | Si       | S67a           |                 |
| 28       | 1N1069      | 400     | 5.0                    | 100A               | 60                 | 4.0m            | 170C      | 1.5                          | 5.0                | 25A                   | 1.0m                 |  | 400                                      |                   |                              |             | Si       | S66c           |                 |
| 29       | 1N1075      | 400     | 5.0                    | 100A               | 60                 | 4.0m            | 170C      | 1.5                          | 5.0                | 25A                   | 1.0m                 |  | 400                                      |                   |                              |             | Si       | S68c           |                 |
| 30       | 1N1092      | 400     | 5.0                    | 100A               | 60                 | 4.0m            | 170C      | 1.5                          | 5.0                | 25A                   | 2.0m                 |  | 400                                      |                   |                              |             | Si       | F22h           |                 |
| 31       | 1N1092A     | 400     | 5.0                    | 100A               |                    |                 | 100A      | 1.5                          | 5.0                | 100A                  | 5.0m                 | 100A                                       | 400                                      |                   |                              |             | Si       | F73            |                 |
| 32       | 45536-400   | 400     | 5.0                    | 100C               | 100                | 10m             | 160J      | 1.3                          | 10                 | 25C                   | 200u                 | 160C                                       | 400                                      | 700               |                              |             | Si       | M249*          |                 |
| 33       | VRE400X     | 400     | 5.0                    | 100                | 75                 | 8.3m            | 150       | 1.5                          | 10                 | 25                    | 2.0                  | 5.0  | 150                                      | 400               |                              |             | Si       | M249*          |                 |
| 34       | VRF400X     | 400     | 5.0                    | 100                | 75                 | 8.3m            | 150       | 1.5                          | 10                 | 25                    | 2.0                  | 5.0  | 150                                      | 400               |                              |             | Si       | M249*          |                 |
| 35       | VRG400X     | 400     | 5.0                    | 100                | 75                 | 8.3m            | 150       | 1.5                          | 10                 | 25                    | 2.0                  | 5.0  | 150                                      | 400               |                              |             | Si       | M249*          |                 |
| 36       | ESP5400     | 400     | 5.0                    | 105C               | 200                |                 | 150C      | 1.2                          | 3.0                | 25C                   | 10u                  | 900u                                       | 150C                                     | 400               |                              |             | Si       | A3q            |                 |
| 37       | 1N1615A     | 400     | 5.0                    | 150C               | 150                |                 | 190J      | 1.1                          | 6.0                | 25                    | .50m                 | 150  | 400                                      |                   |                              |             | Si       | D04A           |                 |
| 38       | E3G3        | 400     | 5.0                    | 150                | 200                |                 | 175       | 1.3                          | 5.0                | 150                   | 10u                  | 1.0m                                       | 150                                      | 400               |                              |             | Si       | D04            |                 |
| 39       | F1G3        | 400     | 5.0                    | 150C               | 200                |                 | 175J      | 1.3                          | 30                 | 25C                   | 1.0m                 | 150C                                       | 400                                      |                   |                              |             | Si       | D05            |                 |
| 40       | 550R4B      | 400     | 5.5                    | 25                 | 250                |                 | 175       | 2.0                          | 5.5                | 25                    | 10u                  | 1.0m                                       | 100                                      | 400               |                              |             | Si       |                |                 |
| 41       | NS6004      | 400     | 6.0                    | 25                 | 300                | 8.3m            | 150       | 1.2                          | 6.0                | 25                    | 25u                  |  | 400                                      |                   |                              |             | Si       |                |                 |
| 42       | 6A400       | 400     | 6.0                    | 25                 | 300                | 8.0m            | 175       | 1.2                          | 6.0                | 25                    | 25u                  |  | 400                                      |                   |                              |             | Si       | S19f           |                 |
| 43       | 6SBF40      | 400     | 6.0                    | 25                 | 100                | 8.3m            | 150       | 1.2                          | 6.0                | 25                    | 10                   | 25   | 400                                      | 450               | 900                          |             | Si       | M532a          |                 |
| 44       | 600R4B      | 400     | 6.0                    | 25                 | 250                |                 | 175       | 2.0                          | 6.0                | 25                    | 10u                  | 1.0m                                       | 100                                      | 400               |                              |             | Si       |                |                 |
| 45#      | DD4026      | 400     | 6.0                    | 25                 | 50                 | 10m             | 150       | 1.1                          | 6.0                | 25                    | 5.0u                 |  | 25                                       | 400               |                              |             | Si       | S19            |                 |
| 46#      | DD4066      | 400     | 6.0                    | 25                 | 50                 | 10m             | 100       | 1.1                          | 6.0                | 25                    | 5.0u                 |  | 25                                       | 400               |                              |             | Si       | S19            |                 |
| 47#      | R250-H      | 400     | 6.0                    | 40A                | 400                | 8.3m            | 175A      | 1.0                          | 6.0                | 25J                   | 10u                  |  | 800                                      |                   |                              |             | Si       | A386           |                 |
| 48       | R3400A06    | 400     | 6.0                    | 40A                | 400                | 8.3m            | 175A      | 1.0                          | 10                 | 150J                  | 50u                  | 500u                                       | 150A                                     | 400               |                              |             | Si       | A396           |                 |
| 49#      | RV250H      | 400     | 6.0                    | 40A                | 400                | 8.3m            | 150A      | 1.0                          | 6.0                | 25J                   | 10u                  |  | 400                                      |                   |                              |             | Si       | C197           |                 |
| 50#      | S2HB40Z     | 400     | 6.0                    | 40A                | 80                 | 20m             | 150J      | 1.05                         | 3.0                | 25C                   | 10u                  |  | 400                                      |                   |                              |             | Si       | TO             |                 |
| 51#      | S25VB40     | 400     | 6.0                    | 40A                | 400                |                 | 150J      | 1.05                         | 12                 | 25A                   | 10u                  |  | 25A                                      | 400               |                              |             | Si       | C189a          |                 |
| 52#      | 6GC12       | 400     | 6.0                    | 50A                | 200                |                 | 150J      | 1.2                          | 6.0                | 25A                   |                      | 1.3  | 150J                                     | 400               |                              |             | Si       | S19s           |                 |
| 53       | 6SB400      | 400     | 6.0                    | 50                 | 300                | 8.3m            | 150       | 1.0                          | 3.0                | 25                    | 10u                  |  | 400                                      |                   |                              |             | Si       | M532a          |                 |
| 54       | S6A4        | 400     | 6.0                    | 50A                | 300                | 8.3m            | 175C      | 1.0                          | 6.0                | 25A                   | 1.0u                 |  | 400                                      |                   |                              |             | Si       | A1ey           |                 |
| 55       | 6A4         | 400     | 6.0                    | 60L                | 400                | 8.0m            | 175S      | 900m                         | 6.0                | 25A                   | 10u                  |  | 400                                      | 400               | ∅                            |             | Si       | A277e          |                 |
| 56       | HEPRO104-RT | 400     | 6.0                    | 60A                | 400                |                 |           |                              |                    |                       |                      |  |  |                   |                              |             | Si       |                |                 |
| 57       | P600G       | 400     | 6.0                    | 60A                | 400                |                 | 175A      | 1.25                         | 100                | 25J                   | 25n                  | 100n                                       | 100J                                     | 400               |                              |             | Si       | A1eg           |                 |
| 58       | TIR102D     | 400     | 6.0                    | 70C                | 40                 | 8.3m            | 150J      | 2.0                          | 9.4                | 25C                   | 10u                  | 2.0m                                       | 100C                                     | 400               |                              |             | Si       | Y220b          |                 |
| 59       | TIR202D     | 400     | 6.0                    | 70C                | 40                 | 8.3m            | 150J      | 1.2                          | 1.0                | 25C                   | 10u                  | 2.0m                                       | 100C                                     | 400               |                              |             | Si       | TO220AB        |                 |
| 60#      | 44R2        | 400     | 6.0                    | 75A                | 75                 | 10m             | 150C      | 1.2                          | 6.0                | 25C                   |                      | 2.5m                                       | 150C                                     | 400               |                              |             | Si       | D04            |                 |
| 61       | 60S4        | 400     | 6.0                    | 95C                | 400                | 8.3m            | 175J      | 910m                         | 6.0                | 25J                   |                      | 800u                                       | 95C                                      | 400               |                              |             | Si       | A52m           |                 |
| 62#      | 6F40        | 400     | 6.0                    | 100A               | 120                | 10m             | 190J      | .65                          | 6.0                | 100B                  | 2.5m                 | 100B                                       | 400                                      |                   |                              |             | Si       | D04            |                 |
| 63       | 40H3        | 400     | 6.0                    | 100A               | 240                |                 | 175C      | 1.3                          | 6.0                | 25A                   | 300u                 | 25A  | 400                                      |                   |                              |             | Si       | S187c          |                 |
| 64#      | BY214-400   | 400     | 6.0                    | 100                | 400                | 10m             | 150       | 1.2                          | 20                 |                       | 1.0m                 | 100  | 400                                      |                   |                              |             | Si       | A318           |                 |
| 65#      | M6-400      | 400     | 6.0                    | 120C               | 130                | 10m             | 150S      | 1.35                         | 20                 | 25C                   | 20u                  | 500u                                       | 150C                                     | 400               |                              |             | Si       | D04            |                 |
| 66#      | G4006       | 400     | 6.0                    | 125C               | 160                | 10m             | 150J      | 1.2                          | 20                 | 25C                   |                      | 3.0m                                       | 125C                                     | 400               |                              |             | Si       | D04            |                 |
| 67#      | P4006       | 400     | 6.0                    | 125C               | 160                | 10m             | 150J      | 1.2                          | 20                 | 25C                   |                      | 3.0m                                       | 125C                                     | 400               |                              |             | Si       | S95a           |                 |
| 68       | 1N1346      | 400     | 6.0                    | 150C               | 66                 |                 | 190J      | 1.2                          | 10                 | 25J                   |                      | 10m  | 25                                       | 400               |                              |             | Si       | S26            |                 |
| 69       | 1N1346A     | 400     | 6.0                    | 150B               | 150                |                 | 200J      | .64                          | 6.0                | 150B                  |                      | 1.5m                                       | 150B                                     | 400               |                              |             | Si*      | D04            |                 |
| 70       | 1N1346B     | 400     | 6.0                    | 150C               | 150                |                 | 190J      | 1.1                          | 6.0                |                       | .02m                 | 25C  | 400                                      |                   |                              |             | Si       | D04A           |                 |
| 71       | 1N2151      | 400     | 6.0                    | 150C               | 150                |                 | 150       | 1.2                          | 10                 | 25                    | 4.0u                 | .50m                                       | 150A                                     | 400               |                              |             | Si       | DO10           |                 |
| 72       | 1N2151A     | 400     | 6.0                    | 150C               | 150                |                 | 150       | 1.0                          | 10                 | 25                    | 1.0u                 | .10m                                       | 150                                      | 400               |                              |             | Si       | DO10           |                 |
| 73       | 1N2276      | 400     | 6.0                    | 150C               | 400                | 8.3m            | 150C      | 1.2                          | 20                 | 25C                   |                      | 1.0m                                       | 150C                                     | 400               |                              |             | Si       | D05            |                 |
| 74       | 1N2495      | 400     | 6.0                    | 150C               |                    |                 | 190J      | 1.1                          | 6.0                | 25                    |                      | 2.0m                                       | 150C                                     | 400               |                              |             | Si       | D04            |                 |
| 75       | 1N2569      | 400     | 6.0                    | 150C               | 150                |                 | 150C      | 1.5                          | 10                 | 25C                   | 10u                  | 1.0m                                       | 150C                                     | 400               |                              |             | Si       | DO10           |                 |
| 76       | E4G3        | 400     | 6.0                    | 150                | 200                |                 | 175       | 1.3                          | 6.0                | 150                   | 10u                  | 1.0m                                       | 150                                      | 400               |                              |             | Si       | D04            |                 |
| 77       | R3100A06    | 400     | 6.0                    | 150                | 150                | 8.3m            | 200       | 1.4                          | 6.0                | 25                    |                      |  |  |                   |                              |             | Si       | D04            |                 |
| 78       | HSE7004-RT  | 400     | 6.3                    | 25                 | 100                | 8.3m            | 175C      | 750m                         | 10                 | 150C                  | 75u                  | 2.0m                                       | 150C                                     | 280               |                              |             | Si       | D04            |                 |
| 79       | 1N1615R     | 400     | 7.0                    | 150B               | 150                |                 | 190A      | 700m                         | 1.0                | 190J                  | 10u                  | 1.0m                                       | 190J                                     | 400               |                              |             | Si       | D04            |                 |
| 80       | 1N2698      | 400     | 7.2                    | 25A                | 15                 | 8.3m            | 165A      | 1.3                          | 7.2                | 25A                   | 300u                 |  | 400                                      |                   |                              |             | Si       | M126e          |                 |
| 81       | UT5140      | 400     | 7.5                    | 100C               | 150                | 8.3m            | 175A      | 1.0                          | 5.0                | 25                    | 10u                  | .30m                                       | 100                                      | 400               |                              |             | Si       | S277           |                 |
| 82       | HSE7014-RT  | 400     | 7.6                    | 25                 | 150                | 8.3m            | 175C      | 900m                         | 10                 | 150C                  | 100u                 | 3.0m                                       | 150C                                     | 280               |                              |             | Si       | D04            |                 |
| 83#</    |             |         |                        |                    |                    |                 |           |                              |                    |                       |                      |  |  |                   |                              |             |          |                |                 |