

# 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 |                 |           |        | MAX. TEMP (°C) | MAXIMUM FORWARD VOLTAGE DROP |              |                    | MAX. REVERSE CURRENT |             |                 | AVALANCHE RATINGS |                 | DESCRIPTION | DWG. No. |       |
|----------|------------|---------|------------------------|-----------------|--------------------|-----------------|-----------|--------|----------------|------------------------------|--------------|--------------------|----------------------|-------------|-----------------|-------------------|-----------------|-------------|----------|-------|
|          |            |         | 2 Io (A)               | 3 Iat TEMP (°C) | PEAK 1 Cy (A)      | PULSE WIDTH (s) | DISS. (W) | Vf (V) |                | at If (A)                    | at TEMP (°C) | Ir @ 25°C & Vr (A) | Ir & T (A)           | TEMP T (°C) | TEST VOLT V (V) | MAX V BKDN (V)    | MIN SLOPE (A/V) |             |          |       |
|          |            |         |                        |                 |                    |                 |           |        |                |                              |              |                    |                      |             |                 |                   |                 |             |          | Mat.  |
| 1        | A7N5       | 1.2k    | 1.5                    | 25              | 60                 |                 |           | 175A   | 50             |                              | 150          | 5.0u               | 50m                  | 150         | 1.2k            |                   | Si              | A84a        |          |       |
| 2        | A7N9       | 1.2k    | 1.5                    | 25              | 60                 |                 |           | 175A   | 50             |                              | 150          | 10u                | 50m                  | 150         | 1.2k            |                   | Si              | A84a        |          |       |
| 3        | B7N1       | 1.2k    | 1.5                    | 25              | 60                 |                 |           | 175A   | 50             |                              | 150          | 10u                | 50m                  | 150         | 1.2k            |                   | Si              | A1rx        |          |       |
| 4        | B7N5       | 1.2k    | 1.5                    | 25              | 60                 |                 |           | 175A   | 50             |                              | 150          | 5.0u               | 50m                  | 150         | 1.2k            |                   | Si              | A1rx        |          |       |
| 5        | B7N9       | 1.2k    | 1.5                    | 25              | 60                 |                 |           | 175A   | 50             |                              | 150          | 10u                | 50m                  | 150         | 1.2k            |                   | Si              | A1rx        |          |       |
| 6        | 5# S12MM1  | 1.2k    | 1.5                    | 40A             | 47                 |                 |           | 170A   | 1.4            | 9.0                          |              |                    | 5.0u                 | 25J         |                 | 1.4k∅             | 200u            | Si          | DO15     |       |
| 7        | S15H1      | 1.2k    | 1.5                    | 40A             | 47                 |                 |           | 170A   |                |                              |              | 10u                | 300u                 | 150         | 50              |                   |                 | Si          | DO27     |       |
| 8        | S14120     | 1.2k    | 1.5                    | 40A             | 50                 |                 |           | 170J   |                |                              |              | 300u               | 300u                 | 150C        | 1.2k            |                   |                 | Si          | DO27     |       |
| 9        | SSiC1880A  | 1.2k    | 1.5                    | 45A             | 75                 |                 |           | 150J   |                |                              |              | 1.0u               |                      |             | 1.2k            |                   |                 | Si          | A230     |       |
| 10       | K7N5       | 1.2k    | 1.5                    | 50              | 60                 |                 |           | 150C   | 2.0            | 1.5                          | 25           | 5.0u               | 50m                  | 100         | 1.2k            |                   |                 | Si          |          |       |
| 11       | CTN1200    | 1.2k    | 1.5                    | 75              | 50                 |                 |           | 175A   | 1.0            |                              |              | 10u                |                      |             | 1.2k            |                   |                 | Si          | M594*    |       |
| 12       | CTP1200    | 1.2k    | 1.5                    | 75              | 50                 |                 |           | 175A   | 1.0            |                              |              | 10u                |                      |             | 1.2k            |                   |                 | Si          | M594a*   |       |
| 13       | VB1200     | 1.2k    | 1.5                    | 75              | 50                 |                 |           | 175A   | 1.0            |                              |              | 10u                |                      |             | 1.2k            |                   |                 | Si          | M594b*   |       |
| 14       | BY227      | 1.2k    | 1.75                   | 25A             | 50                 | 8.3m            |           | 150J   | 1.5            | †                            | 5.0          | 25J                | 10u                  | 200u        | 125J            | 1.2k              |                 | Si          | A283a    |       |
| 15       | 200R12B    | 1.2k    | 2.0                    | 25              | 60                 |                 |           | 175    | 2.0            | 2.0                          | 25           | 5.0u               | 50m                  | 150         | 1.2k            |                   |                 | Si          |          |       |
| 16       | 2A1200     | 1.2k    | 2.0                    | 50A             | 200                | 8.0m            | 2.0       | 175A   | 1.2            | 2.0                          | 25A          | 25u                |                      |             | 1.2k            |                   |                 | Si          | A3t      |       |
| 17       | B8N5       | 1.2k    | 2.0                    | 50              | 90                 | 8.3m            |           | 175A   | 1.0            | 2.0                          | 25A          | 5.0u               | 500u                 | 150         | 1.2k            |                   |                 | Si          | A1rx     |       |
| 18       | B172-120   | 1.2k    | 2.0                    | 50              | 60                 |                 |           | 150C   | 2.0            | 2.0                          | 25           | 5.0u               | 50m                  | 100         | 1.2k            |                   |                 | Si          |          |       |
| 19       | K8N5       | 1.2k    | 2.0                    | 50              | 60                 |                 |           | 150C   | 2.0            | 2.0                          | 25           | 5.0u               | 50m                  | 100         | 1.2k            |                   |                 | Si          |          |       |
| 20       | SCHS12500  | 1.2k    | 2.0                    | 55              | 150                |                 |           | 175A   | 25             | 1.0                          | 25           | 10u                | 120u                 | 100         | 1.2k            |                   |                 | Si          | A138u    |       |
| 21       | SSiC1880A  | 1.2k    | 2.3                    | 45A             | 75                 | 10m             |           | 150J   |                |                              |              | 1.0u               |                      |             | 1.2k            |                   | 2.0k            | Si          | A231     |       |
| 22       | 250R12B    | 1.2k    | 2.5                    | 25              | 250                |                 |           | 175    | 2.0            | 2.5                          | 25           | 10u                | 1.0m                 | 150         | 1.2k            |                   |                 | Si          |          |       |
| 23       | SLZ1203G   | 1.2k    | 2.5                    | 25A             | 100                | 10m             |           | 150J   | 1.05           | 7.5                          | 25C          | 5.0u               | 110u                 | 100C        | 1.2k            |                   | 1.8k            | Si          | DO1      |       |
| 24       | SL1203F    | 1.2k    | 2.5                    | 30A             | 100                |                 |           | 150C   | 1.05           | 7.5                          | 25A          | 5.0u               | 110u                 | 100A        | 1.2k            |                   |                 | Si          | DO1      |       |
| 25       | SKE2.5/12  | 1.2k    | 2.5                    | 45A             | 180                | 10m             |           | 150J   | 1.2            | 10                           | 25J          | 10u                |                      |             | 840             |                   |                 | Si          | M571c    |       |
| 26       | SKN2.5/12  | 1.2k    | 2.5                    | 45A             | 180                | 10m             |           | 180J   | 1.25           | 10                           | 25J          | 50u                |                      |             | 840             |                   |                 | Si          | S452     |       |
| 27       | S3A12      | 1.2k    | 3.0                    |                 | 200                |                 |           |        | 1.0            |                              |              | 1.0u               |                      |             | 1.2k            |                   |                 | Si          | A1ey     |       |
| 28       | IN2720     | 1.2k    | 3.0                    | 25A             | 15                 | 8.3m            |           | 165A   | 3.9            | 3.0                          | 25A          | 800u               |                      |             | 1.0k            |                   |                 | Si          | M126c    |       |
| 29       | IN2739     | 1.2k    | 3.0                    | 25A             | 15                 | 8.3m            |           | 165A   | 3.9            | 3.0                          | 25A          | 800u               |                      |             | 1.2k            |                   |                 | Si          | M126g    |       |
| 30       | IN2764     | 1.2k    | 3.0                    | 25A             | 15                 | 8.3m            |           | 165A   | 3.9            | 3.0                          | 25A          | 300u               |                      |             | 1.2k            |                   |                 | Si          | M126g    |       |
| 31       | 300R12B    | 1.2k    | 3.0                    | 25              | 250                |                 |           | 175    | 2.0            | 3.0                          | 25           | 10u                | 1.0m                 | 150         | 1.2k            |                   |                 | Si          |          |       |
| 32       | S12M3      | 1.2k    | 3.0                    | 40A             | 185                |                 |           | 150A   | 1.0            | 3.0                          | 25J          | 15u                | 500u                 | 150J        | 1.2k            |                   |                 | Si          | A1vm     |       |
| 33       | IN4146     | 1.2k    | 3.0                    | 50A             | 300                | 8.3m            |           | 175A   | 1.0            | 3.0                          | 50A          | 200u               | 50A                  | 1.2k        |                 |                   |                 | Si          | A52d     |       |
| 34       | 3C1200     | 1.2k    | 3.0                    | 50A             | 300                | 8.3m            |           | 175    | 1.2            | 3.0                          | 25A          | 25u                | 500u                 | 100         | 1.2k            |                   |                 | Si          | A3q      |       |
| 35       | IN3370     | 1.2k    | 3.0                    | 55C             | 30                 | 8.3m            |           | 200C   | 2.0            | Δ                            | 500m         | 55C                | 25u                  | 25u         | 55C             | 1.2k              |                 |             | Si       | S505  |
| 36       | BYW17-1200 | 1.2k    | 3.0                    | 80A             | 240                | 10m             |           | 150J   | 1.2            | 10                           |              | 25u                | 25u                  | 100C        | 1.2k            |                   |                 | Si          | A318     |       |
| 37       | S12BR2     | 1.2k    | 3.0                    | 95B             | 53                 |                 |           | 130B   | 5.5            | ∅                            | 1.5          | 25                 | 2.0m                 | 125         | 1.2k            |                   |                 | Si          | S81      |       |
| 38       | SE12       | 1.2k    | 3.0                    | 100             | 200                | 8.0m            | 3.0       | 175    | 1.2            | 3.0                          | 100          | 10u                | 100u                 | 50          | 1.3k            |                   |                 | Si          | A1ec     |       |
| 39       | BYX48-1200 | 1.2k    | 3.0                    | 120B            | 40                 | 10m             |           | 150J   | 2.3            | 20                           | 25J          | 200u               | 200u                 | 125J        | 800             |                   |                 | Si          | M754     |       |
| 40       | JAN1N3650  | 1.2k    | 3.3                    | 50C             | 25                 | 8.3m            |           | 150C   | 2.2            | †                            | 10           | 25C                | 5.0u                 | 200u        | 150C            | 1.0k              |                 |             | Si       | S465  |
| 41       | JAN1N3650R | 1.2k    | 3.3                    | 50C             | 25                 | 8.3m            |           | 150C   | 2.2            | †                            | 10           | 25C                | 5.0u                 | 200u        | 150C            | 1.0k              |                 |             | Si       | S465a |
| 42       | 350R12B    | 1.2k    | 3.5                    | 25              | 250                |                 |           | 175    | 2.0            | 3.5                          | 25           | 10u                | 1.0m                 | 150         | 1.2k            |                   |                 | Si          |          |       |
| 43       | IN2690     | 1.2k    | 3.6                    | 25A             | 15                 | 8.3m            |           | 165A   | 3.9            | 3.6                          | 25A          | 800u               |                      |             | 1.2k            |                   |                 | Si          | M126e    |       |
| 44       | 400R12B    | 1.2k    | 4.0                    | 25              | 250                |                 |           | 175    | 2.0            | 4.0                          | 25           | 10u                | 1.0m                 | 150         | 1.2k            |                   |                 | Si          |          |       |
| 45       | BYY81      | 1.2k    | 4.0                    | 50B             | 75                 |                 |           | 150J   | 1.3            | 2.0                          | 25J          | 5.0u               |                      |             | 1.2k            |                   |                 | Si          | S441a    |       |
| 46       | SSiC2080A  | 1.2k    | 4.0                    | 115C            | 100                | 10m             |           | 150J   |                |                              |              | 1.0u               |                      |             | 1.2k            |                   | 2.0k            | Si          | S112bΔ   |       |
| 47       | G1204      | 1.2k    | 4.0                    | 125C            | 100                | 10m             | 4.0       | 150J   | 1.2            | †                            | 13           | 25C                | 3.0m                 | 125C        | 1.2k            |                   |                 | Si          | DO4      |       |
| 48       | P1204      | 1.2k    | 4.0                    | 125C            | 100                | 10m             | 4.0       | 150J   | 1.2            | †                            | 13           | 25C                | 3.0m                 | 125C        | 1.2k            |                   |                 | Si          | S95a     |       |
| 49       | 450R12B    | 1.2k    | 4.5                    | 25              | 250                |                 |           | 175    | 2.0            | 4.5                          | 25           | 10u                | 1.0m                 | 150         | 1.2k            |                   |                 | Si          |          |       |
| 50       | S5A12      | 1.2k    | 5.0                    |                 | 200                |                 |           |        | 1.0            |                              |              | 1.0u               |                      |             | 1.2k            |                   |                 | Si          | A1ey     |       |
| 51       | IN2244     | 1.2k    | 5.0                    | 25#             | 20                 |                 |           | 150    | 60             | 1.5                          | 25           |                    | 750u                 | 150         | 1.2k            |                   |                 | Si          | DO4      |       |
| 52       | IN2244A    | 1.2k    | 5.0                    | 25#             | 100                |                 |           | 150    | 60             | 5.0                          | 25           |                    | 350u                 | 150         | 1.2k            |                   |                 | Si          | DO4      |       |
| 53       | IN2245     | 1.2k    | 5.0                    | 25#             | 20                 |                 |           | 150    | 60             | 1.5                          | 25           |                    | 750u                 | 150         | 1.2k            |                   |                 | Si          | S35      |       |
| 54       | IN2245A    | 1.2k    | 5.0                    | 25#             | 100                |                 |           | 150    | 60             | 5.0                          | 25           |                    | 350u                 | 150         | 1.2k            |                   |                 | Si          | S35      |       |
| 55       | 500R12B    | 1.2k    | 5.0                    | 25              | 250                |                 |           | 175    | 2.0            | 5.0                          | 25           | 10u                | 1.0m                 | 150         | 1.2k            |                   |                 | Si          |          |       |
| 56       | SKN5/12    | 1.2k    | 5.0                    | 45A             | 190                | 10m             |           | 180J   | 1.2            | 10                           | 25J          | 100u               |                      |             | 840             |                   |                 | Si          | S352b    |       |
| 57       | M5N5       | 1.2k    | 5.0                    | 55A             | 300                |                 |           | 175A   | 1.1            | 5.0                          | 50           | 25u                |                      |             | 1.2k            |                   |                 | Si          | A1ep     |       |
| 58       | BYX98-1200 | 1.2k    | 5.0                    | 125B            | 60                 | 10m             |           | 150J   | 1.7            | †                            | 20           | 25J                | 200u                 | 125J        | 800             |                   |                 | Si          | DO4      |       |
| 59       | 550R12B    | 1.2k    | 5.5                    | 25              | 250                |                 |           | 175    | 2.0            | 5.5                          | 25           | 10u                | 1.0m                 | 150         | 1.2k            |                   |                 | Si          |          |       |
| 60       | 6A1200     | 1.2k    | 6.0                    | 25              | 300                | 8.0m            |           | 175    | 1.2            | 6.0                          | 25           | 25u                |                      |             | 1.2k            |                   |                 | Si          | S19f     |       |
| 61       | 600R12B    | 1.2k    | 6.0                    | 25              | 250                |                 |           | 175    | 2.0            | 6.0                          | 25           | 10u                | 1.0m                 | 150         | 1.2k            |                   |                 | Si          |          |       |
| 62       | BYX38/1200 | 1.2k    | 6.0                    | 75B             | 38                 |                 |           | 150J   | 1.7            | 5.0                          | 25J          | 10u                | 200u                 | 125J        | 800             |                   |                 | Si          | DO4      |       |
| 63       | M6-1200    | 1.2k    | 6.0                    | 120C            | 130                | 10m             |           | 150S   | 1.35           | †                            | 20           | 25C                | 20u                  | 500u        | 150C            | 1.2k              |                 |             | Si       | DO4   |
| 64       | BYX48-1200 | 1.2k    | 6.0                    | 125B            | 90                 | 10m             |           | 175J   | 1.8            | 15                           | 25J          | 200u               | 125J                 | 800         |                 |                   |                 | Si          | DO4      |       |
| 65       | G1206      | 1.2k    | 6.0                    | 125C            | 160                | 10m             |           | 150J   | 1.2            | †                            | 20           | 25C                | 3.0m                 | 125C        | 1.2k            |                   |                 | Si          | DO4      |       |
| 66       | P1206      | 1.2k    | 6.0                    | 125C            | 160                | 10m             |           | 150J   | 1.2            | †                            | 20           | 25C                | 3.0m                 | 125C        | 1.2k            |                   |                 | Si          | S95a     |       |
| 67       | S15HN6     | 1.2k    | 6.0                    | 125B            | 125                |                 |           | 150J   | 470m∅          | 6.0                          | †            | 150J               | 2.0m                 | 125B        | 1.5k            |                   |                 | Si          | DO4      |       |
| 68       | 60F11      | 1.2k    | 6.0                    | 145C            | 150                | 10m             |           | 175J   | 1.35           | 30                           | 25J          | 900u               | 175J                 | 1.2k        |                 | 1.9k              |                 | Si          | S187a    |       |
| 69       | IN2281     | 1.2k    | 6.0                    | 150C            | 400                | 8.3m            |           | 150C   | 1.2            | 20                           | 25C          | 1.0m               | 150C                 | 1.2k        |                 |                   |                 | Si          | DO5      |       |
| 70       | D8-1200    | 1.2k    | 9.5                    | 90C             | 120                | 10m             |           | 150J   | 1.5            | 20                           | 25J          | 10u                | 2.0m                 | 150J        | 1.2k            |                   |                 | Si          | A31u     |       |
| 71       | IN2264     | 1.2k    | 10                     | 25#             | 200                |                 |           | 150    | 60             | 10                           | 25           |                    | 5.0m                 | 150         | 1.2k            |                   |                 | Si          | DO4      |       |
| 72       | IN2264A    | 1.2k    | 10                     | 25#             | 200                |                 |           | 150    | 60             | 10                           | 25           |                    | 500u                 | 150         | 1.2k            |                   |                 | Si          | DO4      |       |
| 73       | IN2265     | 1.2k    | 10                     | 25#             | 200                |                 |           | 150    | 60             | 10                           | 25           |                    | 5.0m                 | 150         | 1.2k            |                   |                 | Si          | S35      |       |
| 74       | IN2265A    | 1.2k    | 10                     | 25#             | 200                |                 |           | 150    | 60             | 10                           | 25           |                    | 500u                 | 150         | 1.2k            |                   |                 | Si          | S35      |       |
| 75       | IN3934     | 1.2k    | 10                     | 25#             | 25                 |                 |           | 150    | 2.0            | 10                           | 25           | 10u                |                      |             | 1.2k            |                   |                 | Si          | DO4      |       |
| 76       | JAN1N4459  | 1.2k    | 10                     | 25C             | 100                | 8.3m            |           | 150C   | 1.5            | †                            | 15           | 25                 | 50u                  | 500u        | 150C            | 1.0k              |                 |             | Si       | S465  |
| 77       | JAN1N4459R | 1.2k    | 10                     | 25C             | 100                | 8.3m            |           | 150C   | 1.5            | †                            | 15           | 25                 | 50u                  | 500u        | 150C            | 1.0k              |                 |             | Si       | S465a |
| 78       | 72R2S      | 1.2k    | 10                     | 75A             | 115                | 10m             |           | 150C   | 1.1            | 10                           | 25C          |                    | 2.0m                 | 150C        | 1.2k            |                   | 1.3             |             | Si       | DO4   |
| 79       | PT125      | 1.2k    | 10                     | 100C            | 140                |                 |           | 140J   | 1.4            | †                            | 30           | 25C                |                      | 5.0m        | 140J            | 1.2k              |                 |             | Si       | M774  |
| 80       | PTR125     | 1.2k    | 10                     | 100             | 140                | 10m             |           | 140    | 1.45           | †                            | 30           | 25                 |                      | 5.0m        | 140             |                   |                 |             |          |       |