

# 5. RECTIFIERS

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

| LINE No. | 4<br>TYPE No. | 1<br>PIV (V) | MAX AVG FWD DC CURRENT |                |                               | MAX RATINGS @ 25°C   |                |          |           | MAX. TEMP (°C) | MAXIMUM FORWARD VOLTAGE DROP |                    |               | MAX. REVERSE CURRENT |                | AVALANCHE RATINGS |                 | DESCRIPTION |          |              |
|----------|---------------|--------------|------------------------|----------------|-------------------------------|----------------------|----------------|----------|-----------|----------------|------------------------------|--------------------|---------------|----------------------|----------------|-------------------|-----------------|-------------|----------|--------------|
|          |               |              | 2<br>Io (A)            | 3<br>TEMP (°C) | 4<br>SURGE CUR. PEAK 1 Cy (A) | 5<br>PULSE WIDTH (s) | 6<br>DISS. (W) | at V (V) | at If (A) |                | at TEMP (°C)                 | Ir @ 25°C & Vr (A) | at T & Vr (A) | T (°C)               | TEST VOLT (Vr) | MAX V BKDN (V)    | MIN SLOPE (A/V) | MAT.        | DWG. No. |              |
|          |               |              |                        |                |                               |                      |                |          |           |                |                              |                    |               |                      |                |                   |                 |             |          | 7<br>Irr (A) |
| 1        | J527-6C       | 600          | 25                     | 100C           | 300                           | 8.3m                 | 175C           | 1.0      | 3.0       | 25C            | 25u                          | 250u               | 100C          | 600                  |                |                   |                 |             | M947b*   |              |
| 2        | J527-6D       | 600          | 25                     | 100C           | 300                           | 8.3m                 | 175C           | 1.0      | 3.0       | 25C            | 25u                          | 250u               | 100C          | 600                  |                |                   |                 |             | M947*    |              |
| 3        | TJ132-6A      | 600          | 25                     | 100C           | 300                           | 8.3m                 | 175A           | 1.2      | 15        | 25A            | 25u                          | 250u               | 100A          | 600                  |                |                   |                 |             | C199a    |              |
| 4        | TJ132-6C      | 600          | 25                     | 100C           | 300                           | 8.3m                 | 175A           | 1.2      | 15        | 25A            | 25u                          | 250u               | 100A          | 600                  |                |                   |                 |             | C199     |              |
| 5        | TJ132-6D      | 600          | 25                     | 100C           | 300                           | 8.3m                 | 175A           | 1.2      | 15        | 25A            | 25u                          | 250u               | 100A          | 600                  |                |                   |                 |             | C199b    |              |
| 6        | VTA600        | 600 †        | 25                     | 100C           | 250                           | 8.3m                 | 180J           | 1.5      | 25        | 25C            |                              | 5.0mΔ              | 180C          | 600                  | 1.1k           |                   | Si              |             | M560a*   |              |
| 7        | VTA600S       | 600 †        | 25                     | 100C           | 250                           | 8.3m                 | 180J           | 1.5      | 25        | 25C            |                              | 5.0mΔ              | 180C          | 600                  | 1.1k           |                   | SiΔ             |             | S458a*   |              |
| 8        | VTA600T       | 600 †        | 25                     | 100C           | 250                           | 8.3m                 | 180J           | 1.5      | 25        | 25C            |                              | 5.0mΔ              | 180C          | 600                  | 1.1k           |                   | SiΔ             |             | M864a*   |              |
| 9        | VTB600        | 600 †        | 25                     | 100C           | 250                           | 8.3m                 | 180J           | 1.5      | 25        | 25C            |                              | 5.0mΔ              | 180C          | 600                  | 1.1k           |                   | Si              |             | M560b*   |              |
| 10       | VTB600S       | 600 †        | 25                     | 100C           | 250                           | 8.3m                 | 180J           | 1.5      | 25        | 25C            |                              | 5.0mΔ              | 180C          | 600                  | 1.1k           |                   | SiΔ             |             | S458b*   |              |
| 11       | VTB600T       | 600 †        | 25                     | 100C           | 250                           | 8.3m                 | 180J           | 1.5      | 25        | 25C            |                              | 5.0mΔ              | 180C          | 600                  | 1.1k           |                   | SiΔ             |             | M864b*   |              |
| 12       | VTC600        | 600 †        | 25                     | 100C           | 250                           | 8.3m                 | 180J           | 1.5      | 25        | 25C            |                              | 5.0mΔ              | 180C          | 600                  | 1.1k           |                   | Si              |             | M560c*   |              |
| 13       | VTC600S       | 600 †        | 25                     | 100C           | 250                           | 8.3m                 | 180J           | 1.5      | 25        | 25C            |                              | 5.0mΔ              | 180C          | 600                  | 1.1k           |                   | SiΔ             |             | S458c*   |              |
| 14       | VTC600T       | 600 †        | 25                     | 100C           | 250                           | 8.3m                 | 180J           | 1.5      | 25        | 25C            |                              | 5.0mΔ              | 180C          | 600                  | 1.1k           |                   | SiΔ             |             | M864c*   |              |
| 15       | VTD600        | 600 †        | 25                     | 100C           | 250                           | 8.3m                 | 180J           | 1.5      | 25        | 25C            |                              | 5.0mΔ              | 180C          | 600                  | 1.1k           |                   | Si              |             | M560d*   |              |
| 16       | VTD600S       | 600 †        | 25                     | 100C           | 250                           | 8.3m                 | 180J           | 1.5      | 25        | 25C            |                              | 5.0mΔ              | 180C          | 600                  | 1.1k           |                   | SiΔ             |             | S458d*   |              |
| 17       | VTD600T       | 600 †        | 25                     | 100C           | 250                           | 8.3m                 | 180J           | 1.5      | 25        | 25C            |                              | 5.0mΔ              | 180C          | 600                  | 1.1k           |                   | SiΔ             |             | M864d*   |              |
| 18#      | M25-600       | 600 †        | 25                     | 120C           | 300                           | 10m                  | 175S           | 1.3      | †         | 75             | 25C                          |                    | 1.0m          | 175C                 | 600            |                   | Si              |             | S436     |              |
| 19       | MR328         | 600          | 25                     | 130C           | 300                           | 8.3m                 | 175J           | 1.5      | 100       | 25J            | 1.0m                         | 2.5m               | 150C          | 600                  |                |                   | Si              |             | DO21     |              |
| 20#      | SSIE1340      | 600          | 25                     | 135C           | 350                           | 10m                  | 150J           | 1.1      | 45        | 25J            | 20u                          |                    | 600           |                      |                | SiΔ               |                 | S290Δ       |          |              |
| 21       | 1N1198        | 600 *        | 25                     | 145C           | 125                           |                      | 190J           | 1.4      | 30        | 25J            | 10u                          |                    | 600           |                      |                | Si                |                 | S29         |          |              |
| 22       | 1N2160        | 600 Ø        | 25                     | 145B           | 400                           |                      | 200J           | 60 Ø     | 25        | 145B           |                              | 2.0mØ              | 145B          | 600                  |                |                   | Si*             |             | DO5      |              |
| 23       | S25A6         | 600          | 25                     | 145C           | 400                           | 8.3m                 | 175A           | 1.1      | 25        | 25C            |                              | 2.0m               | 100           | 600                  |                |                   | Si              |             | DO5      |              |
| 24#      | DB6240        | 600          | 25                     | 150C           | 400                           | 10m                  | 25J            | 1.3      | 25        | 25J            | 50u                          | 3.0m               | 175J          | 600                  |                |                   | SiΔ             |             | DO21     |              |
| 25       | MR2506        | 600 †        | 25                     | 150C           | 400                           |                      | 175J           | 1.18     | 78        | 25C            | 100u                         | 500u               | 100C          | 600                  |                |                   | SiΔ             |             | M867     |              |
| 26       | MR2506S       | 600 †        | 25                     | 150C           | 600                           |                      | 175J           | 1.15     | 79        | 25C            | 100u                         | 500u               | 100C          | 600                  |                |                   | SiΔ             |             | S461     |              |
| 27#      | SSIE1140      | 600 †        | 25                     | 150C           | 350                           | 10m                  | 150J           | 1.0      | 40        | 25J            | 20u                          |                    | 600           |                      |                | SiΔ               |                 | M324a       |          |              |
| 28       | PR334-RT      | 600          | 25.5                   | 850            |                               |                      |                |          |           |                | 600m                         |                    |               |                      |                |                   | Si              |             | DO5      |              |
| 29       | PR335-RT      | 600          | 25.5                   | 850            |                               |                      |                |          |           |                | 600m                         |                    |               |                      |                |                   | Si              |             | DO5      |              |
| 30       | 1N1438        | 600          | 30                     | 25B            | 160                           |                      |                |          |           |                |                              |                    |               |                      |                |                   | Si              |             | S143     |              |
| 31       | PBC60         | 600          | 30                     | 55C            | 300                           |                      |                |          |           |                |                              |                    |               |                      |                |                   | Si              |             | M447     |              |
| 32       | 1N3665        | 600 †        | 30                     | 100C           | 400                           | 8.3m                 | 175C           | 1.2      | 25        | 100C           | 10u                          | 100u               | 100C          | 600                  |                |                   | Si              |             | DO21     |              |
| 33#      | S68N31        | 600          | 30                     | 120B           | 347                           |                      | 150J           | 600mØ    | 30        |                |                              | 4.0m               | 600           |                      |                |                   | SiΔ             |             | S483a    |              |
| 34#      | S6GN31        | 600          | 30                     | 120B           | 347                           |                      | 150J           | 600mØ    | 30        |                |                              | 4.0m               | 600           |                      |                |                   | SiΔ             |             | S483     |              |
| 35#      | 3DN60         | 600          | 30                     | 122C           | 500                           | 10m                  | 150J           | 1.4      | 125       | 80C            | 3.0m                         | 1.2m               | 122C          | 600                  |                |                   | Si              |             | S96C     |              |
| 36       | F3K3          | 600          | 30                     | 124C           | 300                           |                      | 190C           | 1.3      | 90        | 25C            |                              | 1.0m               | 150C          | 600                  |                |                   | Si              |             | DO5      |              |
| 37       | S3160         | 600          | 30                     | 124C           | 300                           | 8.3m                 | 190J           | 1.3      | 90        | 25C            |                              | 1.0m               | 150C          | 600                  | 700 Ø          |                   | SiΔ             |             | S488a    |              |
| 38       | G3K3          | 600          | 30                     | 150C           | 1.5k                          |                      | 175J           | 1.3      | 200       | 25C            |                              | 5.0m               | 150C          | 600                  |                |                   | Si              |             | DO8      |              |
| 39       | HEPRO257-RT   | 600          | 35                     | 25             | 400                           |                      | 190T           |          |           |                |                              |                    |               |                      |                |                   | Si              |             | DO5      |              |
| 40#      | R6HZ          | 600          | 35                     | 50C            | 250                           | 10m                  | 175C           | 1.5      | †         | 20 †           | 25                           | 3.0m               | 150C          | 600                  | 1.0k           | 40uΔ              | SiΔ             |             | DO5      |              |
| 41#      | R63HZ         | 600          | 35                     | 100C           | 500                           | 10m                  | 150J           | 1.5      | †         | 110            | 25C                          | 5.0m               | 125C          | 600                  | 1.0k           |                   | Si              |             | DO5      |              |
| 42       | 1N4527        | 600          | 35                     | 115C           | 500                           |                      | 175C           | 1.4      | 35        |                |                              | 3.5m               | 115C          | 600                  |                |                   | Si              |             | DO5      |              |
| 43       | ST4-60        | 600          | 35                     | 135C           | 500                           |                      | 175J           | 1.20     | 35        | 25             |                              | 10m                | 140C          | 600                  |                |                   | Si              |             | S187d    |              |
| 44       | 1N1190        | 600          | 35                     | 140C           | 500                           | 8.3m                 | 190C           | 1.7      | 35        | †              | 140C                         | 10m                | 150C          | 600                  |                |                   | SiΔ             |             | DO5      |              |
| 45#      | 36R2          | 600          | 35                     | 140C           | 500                           | 10m                  | 200J           | 1.3      | 35        | 25C            |                              | 10m                | 150C          | 600                  | 700 Ø          |                   | SiΔ             |             | DO5      |              |
| 46#      | 36R2S         | 600          | 35                     | 140C           | 500                           | 10m                  | 200J           | 1.3      | 35        | 25C            |                              | 10m                | 150C          | 600                  | 700 Ø          |                   | Si              |             | DO5      |              |
| 47       | JAN1N1190     | 600          | 35                     | 150C           | 500                           | 8.3m                 | 150C           | 1.4      | †         | 110            | 25A                          | 3.0m               | 150C          | 600                  |                |                   | Si              |             | DO5      |              |
| 48       | JAN1N1190R    | 600          | 35                     | 150C           | 500                           | 8.3m                 | 150C           | 1.4      | †         | 110            | 25A                          | 3.0m               | 150C          | 600                  |                |                   | Si              |             | DO5      |              |
| 49#      | SU601A        | 600          | 36                     | 85C            | 600                           | 10m                  | 150J           | 1.6      | †         | 90             | 25C                          | 200u               | 3.0m          | 150C                 | 600            |                   |                 | SiΔ         |          | S439         |
| 50#      | SUT601K       | 600          | 36                     | 85C            | 600                           | 10m                  | 150J           | 1.6      | †         | 90             | 25C                          | 200u               | 3.0m          | 150C                 | 600            |                   |                 | SiΔ         |          | S437         |
| 51       | F4K3          | 600          | 37                     | 123C           | 600                           |                      | 190C           | 1.2      | 90        | 25C            |                              | 2.0m               | 150C          | 600                  |                |                   | Si              |             | DO5      |              |
| 52       | S3260         | 600          | 37                     | 123C           | 600                           | 8.3m                 | 190J           | 1.2      | 90        | 25C            |                              | 2.0m               | 150C          | 600                  | 700 Ø          |                   | SiΔ             |             | S488b    |              |
| 53       | SK3501-RT     | 600          | 40                     | 850            |                               |                      | 200C           | 650m     |           |                | 5.0u                         |                    |               |                      |                |                   | Si              |             | DO5      |              |
| 54#      | 40HA60        | 600          | 40                     | 30A            | 445                           | 8.3m                 | 150J           |          |           |                |                              | 7.0                | 140           | 600                  | 725 Ø          |                   | Si              |             | S472     |              |
| 55#      | 41HA60        | 600          | 40                     | 30A            | 445                           | 8.3m                 | 150J           |          |           |                |                              | 7.0                | 140           | 600                  | 725 Ø          |                   | Si              |             | S466a    |              |
| 56#      | MP60          | 600          | 40                     | 100C           | 500                           |                      | 150J           | 1.5      | †         | 100            | 25C                          | 5.0m               | 150J          | 600                  |                |                   | Si              |             | DO5      |              |
| 57#      | MPR60         | 600          | 40                     | 100            | 500                           | 10m                  | 150            | 1.5      | †         | 100            | 25                           | 5.0m               | 150           | 600                  |                |                   | Si              |             | DO5      |              |
| 58#      | RP64HZ        | 600          | 40                     | 100C           | 700                           | 10m                  | 150J           | 1.5      | †         | 120 †          | 25                           | 5.0m               | 150C          | 600                  | 1.0k           |                   | Si              |             | DO5      |              |
| 59#      | RP6040        | 600          | 40                     | 100C           | 700                           | 10m                  | 150J           | 1.5      | †         | 120 †          | 25                           | 5.0m               | 150C          | 600                  |                |                   | Si              |             | DO5      |              |
| 60#      | RP6040T       | 600          | 40                     | 100C           | 700                           | 10m                  | 150J           | 1.5      | †         | 120 †          | 25C                          | 5.0m               | 150C          | 600                  |                |                   | Si              |             | DO5      |              |
| 61#      | 10M60         | 600          | 40                     | 104B           | 800                           | 10m                  | 130A           | 1.2      | †         | 120            | 130J                         | 10m                | 115C          | 600                  |                |                   | Si              |             | S4s      |              |
| 62#      | 4DN60         | 600          | 40                     | 115C           | 700                           | 10m                  | 150J           | 1.25     | 125       | 80C            | 3.0m                         | 12m                | 165C          | 600                  |                |                   | Si              |             | S96c     |              |
| 63#      | M41-600       | 600          | 40                     | 120C           | 400                           | 10m                  | 165S           | 1.3      | †         | 100            | 25C                          | 200u               | 3.0m          | 165C                 | 600            |                   |                 | Si          |          | S437         |
| 64#      | S6BN40        | 600          | 40                     | 120B           | 485                           |                      | 150J           | 500mØ    | 40        |                |                              | 4.0m               | 600           |                      |                |                   | SiΔ             |             | S483a    |              |
| 65#      | S6GN40        | 600          | 40                     | 120B           | 485                           |                      | 150J           | 500mØ    | 40        |                |                              | 4.0m               | 600           |                      |                |                   | SiΔ             |             | S483     |              |
| 66#      | BYX52-600     | 600          | 40                     | 125B           | 800                           | 10m                  | 175J           | 1.8      | 150       |                |                              | 1.6m               | 125J          | 400                  |                |                   | Si              |             | DO5      |              |
| 67#      | BYX97-600     | 600          | 40                     | 125A           | 650                           | 10m                  | 150J           | 1.4      | 150       | 25J            |                              | 4.0m               | 125J          | 400                  |                |                   | Si              |             | S29b     |              |
| 68       | S40A6         | 600          | 40                     | 125C           | 500                           | 8.3m                 | 175A           | 1.1      | 40        | 25C            |                              | 2.0m               | 100           | 600                  |                |                   | Si              |             | DO5      |              |
| 69#      | 1N1190T       | 600          | 40                     | 140C           | 700                           | 10m                  | 175J           | 1.5      | 110       | 25C            |                              | 5.0m               | 150C          | 600                  |                |                   | Si              |             | DO5      |              |
| 70       | 40HF60        | 600          | 40                     | 140C           | 500                           | 10m                  | 180J           | 1.4      | 40        | 25J            |                              | 7.0m               | 140C          | 600                  |                |                   | Si              |             | S21h     |              |
| 71       | 1N1190A       | 600          | 40                     | 150C           | 800                           |                      | 200C           | .65      | 40        | 150C           | 15uØ                         | 1.8mØ              | 150           | 600                  |                |                   | SiΔ             |             | DO5      |              |
| 72#      | BY77          | 600          | 40                     | 150J           | 800                           |                      | 100B           | 1.0      | Ø         | 40             | 25                           | 1.4m               | 125B          | 600                  |                |                   | SiΔ             |             | S72i     |              |
| 73#      | BY78          | 600          | 40                     | 150J           | 800                           |                      | 100B           | 1.0      | Ø         | 40             | 25                           | 1.4m               | 125B          | 600                  |                |                   | Si              |             | S72k     |              |
| 74       | G4K3          | 600          | 40                     | 150C           | 1.5k                          |                      | 175J           | 1.3      | 200       | 25C            |                              | 5.0m               | 150C          | 600                  |                |                   | Si              |             | DO8      |              |
| 75       | R4100640      | 600          | 40                     | 150            | 800                           | 8.3m                 | 200            | 1.2      | 40        | †              | 25                           |                    |               |                      |                |                   | Si              |             | DO5      |              |
| 76       | S30460        | 600          | 40                     | 154C           | 800                           | 8.3m                 | 190J           | 1.2      | 100       | 25C            |                              | 10m                | 190C          | 600                  |                |                   | SiΔ             |             | S488b    |              |
| 77#      | S6GN41        | 600          | 40                     | 200B           | 490                           | 10m                  | 250J           | 1.4      | 125       | 250J           |                              | 20m                | 250J          | 600                  |                |                   | Si              |             | S322a    |              |
| 78       | 1N2455        | 600          | 45                     | 60C            | 300                           |                      | 175B           | 1.1      | 20        | 25             |                              | 5.0mØ              | 150B          | 600                  |                |                   | SiΔ             |             | DO5      |              |
| 79       | F5K3          | 600          | 45                     |                |                               |                      |                |          |           |                |                              |                    |               |                      |                |                   |                 |             |          |              |