

**1N2867-1N2976A**

| TYPE      | MATERIAL | REPLACEMENT                           | PAGE NUMBER | IDENTIFICATION | RECTIFIERS                |  |                          |                         |                              | ZENER DIODES         |  |                         |                |
|-----------|----------|---------------------------------------|-------------|----------------|---------------------------|--|--------------------------|-------------------------|------------------------------|----------------------|--|-------------------------|----------------|
|           |          |                                       |             |                | V <sub>R</sub><br>(volts) | V <sub>F</sub><br>(volts)                  | I <sub>O</sub><br>(Amps) | I <sub>R</sub><br>(mA)  | I <sub>surge</sub><br>(Amps) | V <sub>Z</sub> (min) | V <sub>Z</sub> (nom) *<br>V <sub>Z</sub> (max) | Tol<br>V <sub>Z</sub> % | P <sub>D</sub> |
|           |          |                                       |             |                | SIGNAL DIODES             |  |                          |                         | REFERENCE DIODES             |                      |  |                         |                |
|           |          |                                       |             |                | PRV<br>(volts)            | V <sub>F</sub> @ I <sub>F</sub><br>(volts) | I <sub>R</sub>           | t <sub>rr</sub><br>(μs) | TC<br>%/°C                   | V <sub>Z</sub>       | T (min)<br>°C                                  | T (max)<br>°C           |                |
| 1N2867    | S        |                                       |             | R              | 1000                      | 2.5  | 0.7                      | 0.1                     | 7.0                          |                      |  |                         |                |
| 1N2868    | S        |                                       |             | R              | 1500                      | 2.5  | 0.7                      | 0.1                     | 7.0                          |                      |  |                         |                |
| 1N2878    | S        | 1N4006                                | 3-24        | HC             | 700                       | 2.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2879    | S        | 1N4006                                | 3-24        | HC             | 700                       | 2.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2880    | S        | 1N4007                                | 3-24        | HC             | 1.0K                      | 2.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2881    | S        | 1N4007                                | 3-24        | HC             | 1.0K                      | 2.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2882    | S        | 1N4007                                | 3-24        | HC             | 500                       | 3.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2883    | S        | 1N4007                                | 3-24        | HC             | 500                       | 3.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2884    | S        | MR991                                 | 3-37        | HC             | 400                       | 4.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2885    | S        | MR991                                 | 3-37        | HC             | 400                       | 4.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2886    | S        | MR991                                 | 3-37        | HC             | 500                       | 3.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2887    | S        | MR991                                 | 3-37        | HC             | 500                       | 3.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2888    | S        |                                       |             | HC             | 750                       | 5.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2889    | S        | MR992                                 | 3-37        | HC             | 750                       | 5.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2890    | S        | MR992                                 | 3-37        | HC             | 2.0K                      | 4.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2891    | S        | MR992                                 | 3-37        | HC             | 2.0K                      | 4.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2892    | S        | MR993                                 | 3-37        | HC             | 100                       | 6.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2893    | S        | MR993                                 | 3-37        | HC             | 100                       | 6.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2894    | S        | MR994                                 | 3-37        | HC             | 450                       | 7.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2895    | S        | MR994                                 | 3-37        | HC             | 450                       | 7.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2896    | S        | MR994                                 | 3-37        | HC             | 500                       | 5.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2897    | S        | MR994                                 | 3-37        | HC             | 500                       | 5.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2898    | S        |                                       |             | HC             | 800                       | 8.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2899    | S        |                                       |             | HC             | 800                       | 8.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2900    | S        |                                       |             | HC             | 3.0K                      | 6.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2901    | S        |                                       |             | HC             | 3.0K                      | 6.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2902    | S        |                                       |             | HC             | 150                       | 9.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2903    | S        |                                       |             | HC             | 150                       | 9.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2904    | S        |                                       |             | HC             | 500                       | 7.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2905    | S        |                                       |             | HC             | 500                       | 7.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2906    | S        |                                       |             | HC             | 500                       | 10   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2907    | S        |                                       |             | HC             | 500                       | 10   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2908    | S        |                                       |             | HC             | 850                       | 11   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2909    | S        |                                       |             | HC             | 850                       | 11   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2910    | S        |                                       |             | HC             | 4.0K                      | 8.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2911    | S        |                                       |             | HC             | 4.0K                      | 8.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2912    | S        |                                       |             | HC             | 200                       | 12   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2913    | S        |                                       |             | HC             | 200                       | 12   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2914    | S        |                                       |             | HC             | 500                       | 9.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2915    | S        |                                       |             | HC             | 500                       | 9.0  | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2916    | S        |                                       |             | HC             | 550                       | 13   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2917    | S        |                                       |             | HC             | 550                       | 13   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2918    | S        |                                       |             | HC             | 5.0K                      | 10   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2919    | S        |                                       |             | HC             | 5.0K                      | 10   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2920    | S        |                                       |             | HC             | 500                       | 11   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2921    | S        |                                       |             | HC             | 500                       | 11   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2922    | S        |                                       |             | HC             | 6.0K                      | 12   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2923    | S        |                                       |             | HC             | 6.0K                      | 12   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2924    | S        |                                       |             | HC             | 500                       | 13   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2925    | S        |                                       |             | HC             | 500                       | 13   | 250M                     | 0.5*                    |                              |                      |  |                         |                |
| 1N2926    | S        | Microwave X-K band Detector           |             |                |                           |  |                          |                         |                              |                      |  |                         |                |
| 1N2926A   | S        | Microwave X-K band Detector           |             |                |                           |  |                          |                         |                              |                      |  |                         |                |
| 1N2927, A | S        | Tunnel Diodes, See table on page 1-92 |             |                |                           |  |                          |                         |                              |                      |  |                         |                |
| 1N2934, A | S        | Tunnel Diodes, See table on page 1-92 |             |                |                           |  |                          |                         |                              |                      |  |                         |                |
| 1N2937    | S        | 1N2996A                               | 2-19        | ZD             |                           |  |                          |                         | 42.5                         | 57.5                 |  | 10W                     |                |
| 1N2938    | S        |                                       |             | ZD             |                           |  |                          |                         | 0.75                         | 1.05                 |  | 2.0W                    |                |
| 1N2939, A | S        | Tunnel Diodes, See table on page 1-92 |             |                |                           |  |                          |                         |                              |                      |  |                         |                |
| 1N2941, A | S        | Tunnel Diodes, See table on page 1-92 |             |                |                           |  |                          |                         |                              |                      |  |                         |                |
| 1N2969    | S        | Tunnel Diode, See table on page 1-92  |             |                |                           |  |                          |                         |                              |                      |  |                         |                |
| 1N2969A   | S        | Tunnel Diode, See table on page 1-92  |             |                |                           |  |                          |                         |                              |                      |  |                         |                |
| 1N2970    | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 6.8*                         | 20                   |  | 10W                     |                |
| 1N2970A   | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 6.8*                         | 10                   |  | 10W                     |                |
| 1N2970B   | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 6.8*                         | 5.0                  |  | 10W                     |                |
| 1N2971    | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 7.5*                         | 20                   |  | 10W                     |                |
| 1N2971A   | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 7.5*                         | 10                   |  | 10W                     |                |
| 1N2971B   | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 7.5*                         | 5.0                  |  | 10W                     |                |
| 1N2972    | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 8.2*                         | 20                   |  | 10W                     |                |
| 1N2972A   | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 8.2*                         | 10                   |  | 10W                     |                |
| 1N2972B   | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 8.2*                         | 5.0                  |  | 10W                     |                |
| 1N2973    | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 9.1*                         | 20                   |  | 10W                     |                |
| 1N2973A   | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 9.1*                         | 10                   |  | 10W                     |                |
| 1N2973B   | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 9.1*                         | 5.0                  |  | 10W                     |                |
| 1N2974    | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 10*                          | 20                   |  | 10W                     |                |
| 1N2974A   | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 10*                          | 10                   |  | 10W                     |                |
| 1N2974B   | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 10*                          | 5.0                  |  | 10W                     |                |
| 1N2975    | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 11*                          | 20                   |  | 10W                     |                |
| 1N2975A   | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 11*                          | 10                   |  | 10W                     |                |
| 1N2975B   | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 11*                          | 5.0                  |  | 10W                     |                |
| 1N2976    | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 12*                          | 20                   |  | 10W                     |                |
| 1N2976A   | S        |                                       | 2-19        | ZD             |                           |  |                          |                         | 12*                          | 10                   |  | 10W                     |                |

R—Rectifier, RD—Reference Diode, ZD—Zener Diode, GP—General Purpose, HC—High Conductance (≥ 20 mA @ ≤ 1 V), HS—High Speed Switch (Max t<sub>r</sub> < 0.3 μs), CS—High Conductance, High Speed Switch, MS—Medium Speed Switch, PA—Parametric Amplifier, SP—Special Purpose.

**TUNNEL DIODES INDEX**

1N2927 — 1N3720

| TYPE    | MATERIAL | $I_p$<br>(mA) | $I_r/I_v$ | $V_p$<br>(mV) | C<br>$C_J^*$<br>(pF) | f<br>(GHz) |
|---------|----------|---------------|-----------|---------------|----------------------|------------|
| 1N2927  | S        | 0.10          | 2.5       | 75            | 80                   |            |
| 1N2927A | S        | 0.10          | 3.2       | 70            | 80                   |            |
| 1N2928  | S        | 0.47          | 2.5       | 80            | 100                  |            |
| 1N2928A | S        | 0.47          | 3.2       | 74            | 100                  |            |
| 1N2929  | S        | 1.0           | 2.5       | 80            | 150                  |            |
| 1N2929A | S        | 1.0           | 3.2       | 75            | 150                  |            |
| 1N2930  | S        | 4.7           | 2.5       | 85            | 250                  |            |
| 1N2930A | S        | 4.7           | 3.2       | 79            | 250                  |            |
| 1N2931  | S        | 10            | 2.5       | 85            | 400                  |            |
| 1N2931A | S        | 10            | 3.2       | 80            | 400                  |            |
| 1N2932  | S        | 22            | 2.5       | 90            | 1200                 |            |
| 1N2932A | S        | 22            | 3.2       | 82            | 1200                 |            |
| 1N2933  | S        | 47            | 2.5       | 90            | 1800                 |            |
| 1N2933A | S        | 47            | 3.2       | 83            | 1800                 |            |
| 1N2934  | S        | 100           | 2.5       | 90            | 2500                 |            |
| 1N2934A | S        | 100           | 3.2       | 85            | 2500                 |            |
| 1N2939  | G        | 1.0           | 10        | 65            | 15                   | 2.2        |
| 1N2939A | G        | 1.0           | 7.0       | 60            | 10                   |            |
| 1N2940  | G        | 1.0           | 7.7       | 65            | 10                   | 2.2        |
| 1N2940A | G        | 1.0           | 4.4       | 65            | 7.0                  |            |
| 1N2941  | G        | 4.7           | 7.9       | 65            | 50                   | 2.6        |
| 1N2941A | G        | 4.7           | 4.4       | 65            | 30                   |            |
| 1N2969  | G        | 2.2           | 7.6       | 65            | 25                   | 2.5        |
| 1N2969A | G        | 2.2           | 4.5       | 65            | 15                   |            |
| 1N3113  | GA       | 1.0           | 10        |               | 10                   |            |
| 1N3114  | GA       | 2.2           | 10        |               | 10                   |            |
| 1N3115  | GA       | 2.2           | 10        |               | 10                   |            |
| 1N3116  | GA       | 4.7           | 10        |               | 15                   |            |
| 1N3117  | GA       | 4.7           | 9.0       |               | 15                   |            |
| 1N3118  | GA       | 10            | 10        | 160           | 20*                  |            |
| 1N3119  | GA       | 10            |           |               | 20                   |            |
| 1N3120  | GA       | 22            | 10        |               |                      |            |
| 1N3128  | G        | 5.0           | 8.0       | 65            | 15                   |            |
| 1N3129  | G        | 20            | 8.0       | 90            | 20                   |            |
| 1N3130  | G        | 50            | 8.0       | 120           | 25                   |            |
| 1N3138  | GA       | 50            | 13        | 260           | 30                   |            |
| 1N3149  | G        | 10            | 7.7       | 65            | 90                   | 2.6        |
| 1N3149A | G        | 10            | 4.4       | 65            | 50                   |            |
| 1N3150  | G        | 22            | 7.6       | 65            | 125                  | 2.2        |
| 1N3217  | G        | 0.47          | 4.7       |               | 8.0                  |            |
| 1N3218  | G        | 1.0           | 5.0       |               | 10                   |            |
| 1N3218A | G        | 1.0           | 5.0       |               | 5.0                  |            |
| 1N3219  | G        | 2.2           | 5.0       |               | 20                   |            |
| 1N3219A | G        | 2.2           | 5.0       |               | 10                   |            |
| 1N3220  | G        | 4.7           | 4.7       |               | 30                   |            |
| 1N3221  | G        | 10            | 5.0       | 65            | 100                  | 2.6        |
| 1N3221A | G        | 10            | 6.0       |               | 35                   |            |
| 1N3222  | G        | 22            | 5.1       |               | 150                  |            |
| 1N3560  | G        | 1.0           | 5.0       | 55            | 20                   | 1.3        |
| 1N3561  | G        | 1.0           | 8.0       | 55            | 20                   | 1.3        |
| 1N3562  | G        | 5.0           | 6.0       | 55            | 85                   | 1.3        |
| 1N3712  | G        | 1.0           | 5.0       | 65            | 10                   | 2.3        |
| 1N3713  | G        | 1.0           | 7.0       | 65            | 5.0                  | 3.2        |
| 1N3714  | G        | 2.2           | 4.2       | 65            | 25*                  | 2.2        |
| 1N3715  | G        | 2.2           | 7.0       | 65            | 10                   | 3.0        |
| 1N3716  | G        | 4.7           | 4.0       | 65            | 50                   | 1.8        |
| 1N3717  | G        | 4.7           | 7.6       | 65            | 25                   | 3.4        |
| 1N3718  | G        | 10            | 4.1       | 65            | 90                   | 1.6        |
| 1N3719  | G        | 10            | 7.0       | 65            | 50                   |            |
| 1N3720  | G        | 22            | 4.2       | 65            | 150                  | 1.6        |