

# silicon rectifiers cont'd

## miniature axial lead silicon rectifiers DO-41 case style—

| Type   | Maximum Peak Reverse Voltage (volts) | Maximum Average Forward Current (Amps) @ Ambient Temp. (°C) | Maximum Forward Voltage (volts) @ Forward Current (Amps) | Reverse Current (mA) @ Ambient Temp. (°C) | Notes |
|--------|--------------------------------------|---|--|---|-------|
| 1N3241 | 600                                  | 0.75 @ 25   | 2.2 @ 0.75   | 0.5 @ 150                                 | 11    |
| 1N3242 | 800                                  | 0.75 @ 25   | 2.2 @ 0.75   | 0.5 @ 150                                 | 11    |
| 1N3243 | 1000                                 | 0.75 @ 25   | 2.2 @ 0.75   | 0.5 @ 150                                 | -11   |
| 1N3244 | 1200                                 | 0.75 @ 25   | 2.2 @ 0.75   | 0.5 @ 150                                 | 11    |
| 1N3245 | 1500                                 | 0.75 @ 25   | 2.2 @ 0.75   | 0.5 @ 150                                 | 11    |
| 1N3246 | 50                                   | 1 @ 25  | 1.1 @ 1  | 0.5 @ 150                                 | 11    |
| 1N3247 | 100                                  | 1 @ 25  | 1.1 @ 1  | 0.5 @ 150                                 | 11    |
| 1N3248 | 200                                  | 1 @ 25  | 1.1 @ 1  | 0.5 @ 150                                 | 11    |
| 1N3249 | 400                                  | 1 @ 25  | 1.1 @ 1  | 0.5 @ 150                                 | 11    |
| 1N3250 | 600                                  | 1 @ 25  | 1.1 @ 1  | 0.5 @ 150                                 | 11    |
| 1N3251 | 800                                  | 1 @ 25  | 1.1 @ 1  | 0.5 @ 150                                 | 11    |
| 1N3544 | 100                                  | 0.6 @ 25  | 1 @ 0.5 (7)  | 0.75 @ 175                                | 11    |
| 1N3546 | 300                                  | 0.6 @ 25  | 1 @ 0.5 (7)  | 0.75 @ 175                                | 11    |
| 1N3547 | 400                                  | 0.6 @ 25  | 1 @ 0.5 (7)  | 0.75 @ 175                                | 11    |
| 1N3548 | 500                                  | 0.6 @ 25  | 1 @ 0.5 (7)  | 0.75 @ 175                                | 11    |
| 1N3549 | 600                                  | 0.6 @ 25  | 1 @ 0.5 (7)  | 0.75 @ 175                                | 11    |
| 1N4001 | 50                                   | 1 @ 75  | 1.6 @ 1(27)  | .03 @ 75                                  | 11    |
| 1N4002 | 100                                  | 1 @ 75  | 1.6 @ 1(27)  | .03 @ 75                                  | 11    |
| 1N4003 | 200                                  | 1 @ 75  | 1.6 @ 1(27)  | .03 @ 75                                  | 11    |
| 1N4004 | 400                                  | 1 @ 75  | 1.6 @ 1(27)  | .03 @ 75                                  | 11    |
| 1N4005 | 600                                  | 1 @ 75  | 1.6 @ 1(27)  | .03 @ 75                                  | 11    |
| 1N4006 | 800                                  | 1 @ 75  | 1.6 @ 1(27)  | .03 @ 75                                  | 11    |
| 1N4007 | 1000                                 | 1 @ 75  | 1.6 @ 1(27)  | .03 @ 75                                  | 11    |

## DO-27 case style

| Type    | Maximum Peak Reverse Voltage (volts) | Maximum Average Forward Current (Amps) @ Ambient Temp. (°C) | Maximum Forward Voltage (volts) @ Forward Current (Amps) | Reverse Current (μA) @ Ambient Temp. (°C) | Notes |
|---------|--------------------------------------|---|--|---|-------|
| 1N2069  | 200                                  | 0.75 @ 25   | 1.2 @ 0.5  | 10 @ 25                                   | —     |
| 1N2069A | 200                                  | 0.75 @ 25   | 1.0 @ 0.5  | 5 @ 25                                    | —     |
| 1N2070  | 400                                  | 0.75 @ 25   | 1.2 @ 0.5  | 10 @ 25                                   | —     |
| 1N2070A | 400                                  | 0.75 @ 25   | 1.0 @ 0.5  | 5 @ 25                                    | —     |
| 1N2071  | 600                                  | 0.75 @ 25   | 1.2 @ 0.5  | 10 @ 25                                   | —     |
| 1N2071A | 600                                  | 0.75 @ 25   | 1.0 @ 0.5  | 5 @ 25                                    | —     |
| 1N2482  | 200                                  | 0.75 @ 55   | 1.2 @ 0.75   | 1000 @ 55                                 | —     |
| 1N2483  | 400                                  | 0.75 @ 55   | 1.2 @ 0.75   | 1000 @ 55                                 | —     |
| 1N2484  | 600                                  | 0.75 @ 55   | 1.2 @ 0.75   | 1000 @ 55                                 | —     |
| 1N4089  | 400                                  | 1.1 @ 85  | 1.2 @ 1.1 (12)   | 200 @ 85                                  | 11    |
| 1N4361  | 900                                  | 0.5 @ 100   | 1.3 @ 0.5 (13)   | 600 @ 125                                 | 11    |
| 1N4513  | 2000                                 | 0.25 @ 50   | 4.5 @ 0.25 (14)  | 500 @ 175                                 | 11    |
| 1N4514  | 800                                  | 1.1 @ 50  | 1.0 @ 1.1 (14)   | 500 @ 175                                 | 11    |
| 1N4517  | 200                                  | 2.0 @ 50  | 1.2 @ 2.0 (14)   | 1.0 @ 175                                 | 11    |
| 1N4816  | 50                                   | 1.5 @ 40  | 1.3 @ 1.5 (15)   | 250 @ 40                                  | —     |
| 1N4817  | 100                                  | 1.5 @ 40  | 1.3 @ 1.5 (15)   | 250 @ 40                                  | —     |
| 1N4818  | 200                                  | 1.5 @ 40  | 1.3 @ 1.5 (15)   | 250 @ 40                                  | —     |
| 1N4819  | 300                                  | 1.5 @ 40  | 1.3 @ 1.5 (15)   | 250 @ 40                                  | —     |
| 1N4820  | 400                                  | 1.5 @ 40  | 1.3 @ 1.5 (15)   | 250 @ 40                                  | —     |
| 1N4821  | 500                                  | 1.5 @ 40  | 1.3 @ 1.5 (15)   | 250 @ 40                                  | —     |
| 1N4822  | 600                                  | 1.5 @ 40  | 1.3 @ 1.5 (15)   | 250 @ 40                                  | —     |
| 1N5052  | 700                                  | 1.5 @ 40  | 1.3 @ 1.5 (15)   | 500 @ 170                                 | —     |
| 1N5053  | 800                                  | 1.5 @ 40  | 1.3 @ 1.5 (15)   | 500 @ 170                                 | —     |
| 1N5054  | 1000                                 | 1.5 @ 40  | 1.3 @ 1.5 (15)   | 500 @ 170                                 | —     |

## miniature silicon glass rectifiers — DO-29 case style

| Type   | Maximum Peak Reverse Voltage (volts) | Ambient Temp. (°C) Maximum Average Forward Current (Amps) | Forward Current (Amps) Maximum Forward Voltage (volts) | Ambient Temp. (°C) Reverse Current (mA) | Notes |
|--------|--------------------------------------|---|--|---|-------|
| 1N4383 | 200                                  | 1 @ 100   | 1 @ 1  | .010 @ 25                               | —     |
| 1N4384 | 400                                  | 1 @ 100   | 1 @ 1  | .010 @ 25                               | —     |
| 1N4385 | 600                                  | 1 @ 100   | 1 @ 1  | .010 @ 25                               | —     |
| 1N4585 | 800                                  | .6 @ 100  | 1 @ 1  | .010 @ 25                               | —     |
| 1N4586 | 1000                                 | .6 @ 100  | 1 @ 1  | .010 @ 25                               | —     |

## stud mounted silicon power rectifiers DO-4 case style

| Type    | Maximum Peak Reverse Voltage (volts) | Maximum Average Forward Current (Amps) @ Case Temp. (°C) | Maximum Forward Voltage (volts) @ Forward Current (Amps) | Reverse Current (mA) @ Case Temp. (°C) | Notes |
|---------|--------------------------------------|--|--|--|-------|
| 1N253   | 95                                   | 1 @ 150  | 2 @ 2  | .1 @ 150                               | —     |
| 1N254   | 190                                  | 0.4 @ 150  | 2 @ 0.8  | .1 @ 150                               | —     |
| 1N255   | 380                                  | 0.4 @ 150  | 2 @ 0.8  | .15 @ 150                              | —     |
| 1N256   | 570                                  | 0.2 @ 150  | 2 @ 0.4  | .25 @ 150                              | —     |
| 1N332   | 400                                  | 0.4 @ 150  | 2 @ 0.8  | .2 @ 150                               | —     |
| 1N333   | 400                                  | 0.2 @ 150  | 2 @ 0.4  | .2 @ 150                               | —     |
| 1N334   | 300                                  | 0.4 @ 150  | 2 @ 0.8  | .2 @ 150                               | —     |
| 1N335   | 300                                  | 0.2 @ 150  | 2 @ 0.4  | .2 @ 150                               | —     |
| 1N336   | 200                                  | 0.4 @ 150  | 2 @ 0.8  | .1 @ 150                               | —     |
| 1N337   | 200                                  | 0.2 @ 150  | 2 @ 0.4  | .2 @ 150                               | —     |
| 1N338   | 100                                  | 1 @ 150  | 2 @ 2  | .2 @ 150                               | —     |
| 1N339   | 100                                  | 0.4 @ 150  | 2 @ 0.8  | .1 @ 150                               | —     |
| 1N340   | 100                                  | 0.2 @ 150  | 2 @ 0.4  | .5 @ 150                               | —     |
| 1N341   | 400                                  | 0.4 @ 150  | 2 @ 0.8  | .1 @ 150                               | —     |
| 1N342   | 400                                  | 0.2 @ 150  | 2 @ 0.4  | .5 @ 150                               | —     |
| 1N343   | 300                                  | 0.4 @ 150  | 2 @ 0.8  | .5 @ 150                               | —     |
| 1N344   | 300                                  | 0.2 @ 150  | 2 @ 0.4  | 0.5 @ 150                              | —     |
| 1N345   | 200                                  | 0.4 @ 150  | 2 @ 0.8  | 0.5 @ 150                              | —     |
| 1N346   | 200                                  | 0.2 @ 150  | 2 @ 0.4  | 0.5 @ 150                              | —     |
| 1N347   | 100                                  | 1 @ 150  | 2 @ 2  | 0.5 @ 150                              | —     |
| 1N348   | 100                                  | 0.4 @ 150  | 2 @ 0.8  | 0.5 @ 150                              | —     |
| 1N349   | 100                                  | 0.2 @ 150  | 2 @ 0.4  | 0.5 @ 150                              | —     |
| 1N550   | 100                                  | 0.5 @ 125  | 1.5 @ 0.5  | 0.5 @ 25                               | 6     |
| 1N551   | 200                                  | 0.5 @ 125  | 1.5 @ 0.5  | 1 @ 25                                 | 6     |
| 1N552   | 300                                  | 0.5 @ 125  | 1.5 @ 0.5  | 1.5 @ 25                               | 6     |
| 1N553   | 400                                  | 0.5 @ 125  | 1.5 @ .05  | 2.5 @ 25                               | 6     |
| 1N554   | 500                                  | 0.5 @ 125  | 1.5 @ 0.5  | 3.5 @ 25                               | 6     |
| 1N555   | 600                                  | 0.5 @ 125  | 1.5 @ 0.5  | 5 @ 25                                 | 6     |
| 1N562   | 800                                  | 0.4 @ 125  | 1.75 @ 0.4   | 15 @ 25                                | 6     |
| 1N563   | 1000                                 | 0.4 @ 125  | 1.75 @ 0.4   | 20 @ 25                                | 6     |
| 1N1115  | 100                                  | 0.6 @ 150  | 0.65 @ 0.6   | 0.4 @ 150                              | 4     |
| 1N1116  | 200                                  | 0.6 @ 150  | 0.65 @ 0.6   | 0.3 @ 150                              | 4     |
| 1N1117  | 300                                  | 0.6 @ 150  | 0.65 @ 0.6   | 0.3 @ 150                              | 4     |
| 1N1118  | 400                                  | 0.6 @ 150  | 0.65 @ 0.6   | 0.3 @ 150                              | 4     |
| 1N1119  | 500                                  | 0.6 @ 150  | 0.65 @ 0.6   | 0.3 @ 150                              | 4     |
| 1N1120  | 600                                  | 0.6 @ 150  | 0.65 @ 0.6   | 0.3 @ 150                              | 4     |
| 1N1124  | 200                                  | 1 @ 150  | 1.1 @ 1  | 0.3 @ 150                              | 3     |
| 1N1124A | 200                                  | 1 @ 150  | 1.1 @ 1  | 0.3 @ 150                              | —     |
| 1N1125  | 300                                  | 1 @ 150  | 1.1 @ 1  | 0.3 @ 150                              | 3     |
| 1N1125A | 300                                  | 1 @ 150  | 1.1 @ 1  | 0.3 @ 150                              | —     |
| 1N1126  | 400                                  | 1 @ 150  | 1.1 @ 1  | 0.3 @ 150                              | 3     |
| 1N1126A | 400                                  | 1 @ 150  | 1.1 @ 1  | 0.3 @ 150                              | —     |
| 1N1127  | 500                                  | 1 @ 150  | 1.1 @ 1  | 0.3 @ 150                              | 3     |
| 1N1127A | 500                                  | 1 @ 150  | 1.1 @ 1  | 0.3 @ 150                              | —     |
| 1N1128  | 600                                  | 1 @ 150  | 1.1 @ 1  | 0.3 @ 150                              | 3     |
| 1N1128A | 600                                  | 1 @ 150  | 1.1 @ 1  | 0.3 @ 150                              | —     |
| 1N1130  | 1500                                 | 0.3 @ 25   | 15 @ 0.3   | 0.05 @ 25                              | 5     |
| 1N1199  | 50                                   | 12 @ 150   | 1.3 @ 12   | 10 @ 150                               | 5, 3  |
| 1N1199A | 50                                   | 12 @ 150   | 1.3 @ 12   | 3 @ 150                                | —     |
| 1N1199B | 50                                   | 12 @ 150   | 1.1 @ 12   | 0.9 @ 150                              | —     |
| 1N1200  | 100                                  | 12 @ 150   | 1.3 @ 12   | 10 @ 150                               | 5, 3  |
| 1N1200A | 100                                  | 12 @ 150   | 1.3 @ 12   | 2.5 @ 150                              | —     |
| 1N1200B | 100                                  | 12 @ 150   | 1.1 @ 12   | 0.9 @ 150                              | —     |
| 1N1201  | 150                                  | 12 @ 150   | 1.3 @ 12   | 10 @ 150                               | 5, 3  |
| 1N1201A | .150                                 | 12 @ 150   | 1.3 @ 12   | 2.25 @ 150                             | —     |
| 1N1201B | 150                                  | 12 @ 150   | 1.1 @ 12   | 0.9 @ 150                              | —     |
| 1N1202  | 200                                  | 12 @ 150   | 1.3 @ 12   | 10 @ 150                               | 3, 5  |
| 1N1202A | 200                                  | 12 @ 150   | 1.3 @ 12   | 2 @ 150                                | —     |
| 1N1202B | 200                                  | 12 @ 150   | 1.1 @ 12   | 0.9 @ 150                              | —     |

## 6.0 amperes — R-6 case style

| Type    | Maximum Peak Reverse Voltage | Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz |                        | Maximum Forward Peak Surge Current @ 8.3ms Super-Imposed | Maximum Reverse Current @ 25°C T <sub>a</sub> | Maximum Forward Voltage @ 25°C T <sub>a</sub> |      |
|---------|------------------------------|---|------------------------|--|---|---|------|
|         |                              | I <sub>0</sub> @ T <sub>a</sub>                                   | I <sub>m</sub> (Surge) |  |   |   |      |
| SES6A05 | 50                           | 6.0   | 75                     | 400  | 10.0  | 6.0   | 0.95 |
| SES6A1  | 100                          | 6.0   | 75                     | 400  | 10.0  | 6.0   | 0.95 |
| SES6A2  | 200                          | 6.0   | 75                     | 400  | 10.0  | 6.0   | 0.95 |
| SES6A4  | 400                          | 6.0   | 75                     | 400  | 10.0  | 6.0   | 0.95 |
| SES6A6  | 600                          | 6.0   | 75                     | 400  | 10.0  | 6.0   | 0.95 |
| SES6A8  | 800                          | 6.0   | 75                     | 400  | 10.0  | 6.0   | 0.95 |
| SES6A10 | 1000                         | 6.0   | 75                     | 400  | 10.0  | 6.0   | 0.95 |

# silicon rectifiers cont'd

## stud mounted silicon power rectifiers DO-4 case style — (cont'd)

| Type        | Maximum Peak Reverse Voltage (volts) | Maximum Average Forward Current (Amps) @ Case Temp. (°C) | Maximum Forward Voltage (volts) @ Forward Current (Amps) | Reverse Current (mA) @ Case Temp. (°C) | Notes |
|-------------|--------------------------------------|--|--|--|-------|
| 1N1203      | 300                                  | 12 @ 150   | 1.3 @ 12   | 10 @ 150                               | 3, 5  |
| 1N1203A     | 300                                  | 12 @ 150   | 1.3 @ 12   | 1.75 @ 150                             | —     |
| 1N1203B     | 300                                  | 12 @ 150   | 1.1 @ 12   | 0.9 @ 150                              | —     |
| 1N1204      | 400                                  | 12 @ 150   | 1.3 @ 12   | 10 @ 150                               | 2, 5  |
| 1N1204A     | 400                                  | 12 @ 150   | 1.3 @ 12   | 1.5 @ 150                              | —     |
| 1N1204B     | 400                                  | 12 @ 150   | 1.1 @ 12   | 0.9 @ 150                              | —     |
| 1N1205      | 500                                  | 12 @ 150   | 1.3 @ 12   | 10 @ 150                               | 3, 5  |
| 1N1205A     | 500                                  | 12 @ 150   | 1.3 @ 12   | 1.25 @ 150                             | —     |
| 1N1205B     | 500                                  | 12 @ 150   | 1.1 @ 12   | 0.9 @ 150                              | —     |
| 1N1206      | 600                                  | 12 @ 150   | 1.3 @ 12   | 10 @ 150                               | 3, 5  |
| 1N1206A     | 600                                  | 12 @ 150   | 1.3 @ 12   | 1 @ 150                                | —     |
| 1N1206B     | 600                                  | 12 @ 150   | 1.1 @ 12   | 0.9 @ 150                              | —     |
| 1N1227 (1)  | 50                                   | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 125                              | 5     |
| 1N1227A (1) | 50                                   | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 125                              | 5     |
| 1N1228 (1)  | 100                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 125                              | 5     |
| 1N1228A (1) | 100                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 150                              | 5     |
| 1N1229 (1)  | 150                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 150                              | 5     |
| 1N1229A (1) | 150                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 150                              | 5     |
| 1N1230 (1)  | 200                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 125                              | 5     |
| 1N1230A (1) | 200                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 150                              | 5     |
| 1N1231 (1)  | 300                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 125                              | 5     |
| 1N1231A (1) | 300                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 150                              | 5     |
| 1N1232 (1)  | 400                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 125                              | 5     |
| 1N1232A (1) | 400                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 150                              | 5     |
| 1N1233 (1)  | 500                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 125                              | 5     |
| 1N1233A (1) | 500                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 150                              | 5     |
| 1N1234 (1)  | 600                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 125                              | 5     |
| 1N1234A (1) | 600                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 150                              | 5     |
| 1N1235 (1)  | 700                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 125                              | 5     |
| 1N1236 (1)  | 800                                  | 1.6 @ 140  | 1.15 @ 1   | 0.5 @ 125                              | 5     |
| 1N1341      | 50                                   | 6 @ 150  | 1.2 @ 10   | 10 @ 150                               | 3, 5  |
| 1N1341A     | 50                                   | 6 @ 150  | 1.2 @ 10   | 3 @ 150                                | 3     |
| 1N1341B     | 50                                   | 6 @ 150  | 1.1 @ 6  | .45 @ 150                              | 3     |
| 1N1342      | 100                                  | 6 @ 150  | 1.2 @ 10   | 10 @ 150                               | 3, 5  |
| 1N1342A     | 100                                  | 6 @ 150  | 1.2 @ 10   | 2.5 @ 150                              | 3     |
| 1N1342B     | 100                                  | 6 @ 150  | 1.1 @ 6  | .45 @ 150                              | 3     |
| 1N1343      | 150                                  | 6 @ 150  | 1.2 @ 10   | 10 @ 150                               | 3, 5  |
| 1N1343A     | 150                                  | 6 @ 150  | 1.2 @ 10   | 2.25 @ 150                             | 3     |
| 1N1343B     | 150                                  | 6 @ 150  | 1.1 @ 6  | .45 @ 150                              | 3     |
| 1N1344      | 200                                  | 6 @ 150  | 1.2 @ 10   | 10 @ 150                               | 3, 5  |
| 1N1344A     | 200                                  | 6 @ 150  | 1.2 @ 10   | 2 @ 150                                | 3     |
| 1N1344B     | 200                                  | 6 @ 150  | 1.1 @ 6  | .45 @ 150                              | 3     |
| 1N1345      | 300                                  | 6 @ 150  | 1.2 @ 10   | 10 @ 150                               | 3, 5  |
| 1N1345A     | 300                                  | 6 @ 150  | 1.2 @ 10   | 1.75 @ 150                             | 3     |
| 1N1345B     | 300                                  | 6 @ 150  | 1.1 @ 6  | .45 @ 150                              | 3     |
| 1N1346      | 400                                  | 6 @ 150  | 1.2 @ 10   | 10 @ 150                               | 3, 5  |
| 1N1346A     | 400                                  | 6 @ 150  | 1.2 @ 10   | 1.5 @ 150                              | 3     |
| 1N1346B     | 400                                  | 6 @ 150  | 1.1 @ 6  | .45 @ 150                              | 3     |
| 1N1347      | 500                                  | 6 @ 150  | 1.2 @ 10   | 10 @ 150                               | 3, 5  |
| 1N1347A     | 500                                  | 6 @ 150  | 1.2 @ 10   | 1.25 @ 150                             | 3     |
| 1N1347B     | 500                                  | 6 @ 150  | 1.1 @ 6  | .45 @ 150                              | 3     |
| 1N1348      | 600                                  | 6 @ 150  | 1.2 @ 10   | 10 @ 150                               | 3, 5  |
| 1N1348A     | 600                                  | 6 @ 150  | 1.2 @ 10   | 1 @ 150                                | 3     |
| 1N1348B     | 600                                  | 6 @ 150  | 1.1 @ 6  | .45 @ 150                              | 3     |
| 1N1537      | 50                                   | 1.6 @ 140  | 1.5 @ 2.5  | 0.5 @ 150                              | 3     |
| 1N1538      | 100                                  | 1.6 @ 140  | 1.5 @ 2.5  | 0.5 @ 150                              | 3     |
| 1N1539      | 150                                  | 1.6 @ 140  | 1.5 @ 2.5  | 0.5 @ 150                              | 3     |
| 1N1540      | 200                                  | 1.6 @ 140  | 1.5 @ 2.5  | 0.5 @ 150                              | 3     |
| 1N1541      | 300                                  | 1.6 @ 140  | 1.5 @ 2.5  | 0.5 @ 150                              | 3     |
| 1N1542      | 400                                  | 1.6 @ 140  | 1.5 @ 2.5  | 0.5 @ 150                              | 3     |
| 1N1543      | 500                                  | 1.6 @ 140  | 1.5 @ 2.5  | 0.5 @ 150                              | 3     |
| 1N1544      | 600                                  | 1.6 @ 140  | 1.5 @ 2.5  | 0.5 @ 150                              | 3     |
| 1N1551      | 100                                  | 0.75 @ 100   | 1.4 @ 0.75   | 1 @ 100                                | —     |
| 1N1552      | 200                                  | 0.75 @ 100   | 1.4 @ 0.75   | 1 @ 100                                | —     |
| 1N1553      | 300                                  | 0.75 @ 100   | 1.4 @ 0.75   | 1 @ 100                                | —     |
| 1N1554      | 400                                  | 0.75 @ 100   | 1.4 @ 0.75   | 1 @ 100                                | —     |
| 1N1555      | 500                                  | 0.75 @ 100   | 1.4 @ 0.75   | 1 @ 100                                | —     |
| 1N1581      | 50                                   | 3 @ 150  | 1.5 @ 6  | 0.5 @ 150                              | 3     |
| 1N1582      | 100                                  | 3 @ 150  | 1.5 @ 6  | 0.5 @ 150                              | 3     |
| 1N1583      | 200                                  | 3 @ 150  | 1.5 @ 6  | 0.5 @ 150                              | 3     |
| 1N1584      | 300                                  | 3 @ 150  | 1.5 @ 6  | 0.5 @ 150                              | 3     |
| 1N1585      | 400                                  | 3 @ 150  | 1.5 @ 6  | 0.5 @ 150                              | 3     |
| 1N1586      | 500                                  | 3 @ 150  | 1.5 @ 6  | 0.5 @ 150                              | 3     |
| 1N1587      | 600                                  | 3 @ 150  | 1.5 @ 6  | 0.5 @ 150                              | 3     |
| 1N1612      | 50                                   | 5 @ 150  | 1.5 @ 10   | 1 @ 150                                | 3     |

## DO-4 case style — (cont'd)

| Type    | Maximum Peak Reverse Voltage (volts) | Maximum Average Forward Current (Amps) @ Case Temp. (°C) | Maximum Forward Voltage (volts) @ Forward Current (Amps) | Reverse Current (mA) @ Case Temp. (°C) | Notes |
|---------|--------------------------------------|--|--|--|-------|
| 1N1612A | 50                                   | 5 @ 150  | 1.1 @ 6(7)   | 0.5 @ 150(8)                           | —     |
| 1N1613  | 100                                  | 5 @ 150  | 1.5 @ 10   | 1 @ 150                                | 3     |
| 1N1613A | 100                                  | 5 @ 150  | 1.1 @ 6(7)   | 0.5 @ 150(8)                           | —     |
| 1N1614  | 200                                  | 5 @ 150  | 1.5 @ 10   | 1 @ 150                                | 3     |
| 1N1614A | 200                                  | 5 @ 150  | 1.1 @ 6(7)   | 0.5 @ 150(8)                           | —     |
| 1N1615  | 400                                  | 5 @ 150  | 1.5 @ 10   | 1 @ 150                                | 3     |
| 1N1615A | 400                                  | 5 @ 150  | 1.1 @ 6(7)   | 0.5 @ 150(8)                           | —     |
| 1N1616  | 600                                  | 5 @ 150  | 1.5 @ 10   | 1 @ 150                                | 3     |
| 1N1616A | 600                                  | 5 @ 150  | 1.1 @ 6(7)   | 0.5 @ 150(8)                           | —     |
| 1N2026  | 50                                   | 1 @ 150  | 2 @ 2  | 0.5 @ 150                              | 3     |
| 1N2027  | 200                                  | 1 @ 150  | 2 @ 2  | 0.5 @ 150                              | 3     |
| 1N2028  | 300                                  | 1 @ 150  | 2 @ 2  | 0.5 @ 150                              | 3     |
| 1N2029  | 400                                  | 1 @ 150  | 2 @ 2  | 0.5 @ 150                              | 3     |
| 1N2030  | 500                                  | 1 @ 150  | 2 @ 2  | 0.5 @ 150                              | 3     |
| 1N2031  | 600                                  | 1 @ 150  | 2 @ 2  | 0.5 @ 150                              | 3     |
| 1N2216  | 50                                   | 0.4 @ 150  | 1.2 @ 1.5  | 0.5 @ 150                              | —     |
| 1N2218  | 500                                  | 0.4 @ 150  | 1.2 @ 1.5  | 0.5 @ 150                              | 3     |
| 1N2220  | 600                                  | 0.4 @ 150  | 1.2 @ 1.5  | 0.5 @ 150                              | —     |
| 1N2222  | 800                                  | 0.3 @ 150  | 1.2 @ 2  | .75 @ 150                              | —     |
| 1N2222A | 800                                  | 0.3 @ 150  | 1.2 @ 2  | .35 @ 150                              | —     |
| 1N2224  | 1000                                 | 0.3 @ 150  | 1.2 @ 2  | .75 @ 150                              | —     |
| 1N2224A | 1000                                 | 0.3 @ 150  | 1.2 @ 2  | .35 @ 150                              | —     |
| 1N2226  | 1200                                 | 0.3 @ 150  | 1.2 @ 2  | .75 @ 150                              | —     |
| 1N2226A | 1200                                 | 0.3 @ 150  | 1.2 @ 2  | .35 @ 150                              | —     |
| 1N2228  | 50                                   | 1 @ 150  | 0.6 @ 1.5  | 0.5 @ 150                              | 3, 4  |
| 1N2230  | 200                                  | 1 @ 150  | 0.6 @ 1.5  | 0.5 @ 150                              | 3, 4  |
| 1N2232  | 300                                  | 1 @ 150  | 0.6 @ 1.5  | 0.5 @ 150                              | 3, 4  |
| 1N2234  | 400                                  | 1 @ 150  | 0.6 @ 1.5  | 0.5 @ 150                              | 3, 4  |
| 1N2238  | 600                                  | 1 @ 150  | 0.6 @ 1.5  | 0.5 @ 150                              | 3, 4  |
| 1N2240  | 800                                  | 5 @ 25(7)  | 0.6 @ 1.5(7)   | 0.75 @ 150(8)                          | 3     |
| 1N2240A | 800                                  | 5 @ 25(7)  | 0.6 @ 5 (7)  | 0.35 @ 150(8)                          | 3     |
| 1N2246  | 50                                   | 10 @ 25  | 0.6 @ 10 (7)   | 1 @ 150(8)                             | 3     |
| 1N2246A | 50                                   | 10 @ 25  | 0.6 @ 10 (7)   | 0.5 @ 150(8)                           | 3     |
| 1N2248  | 100                                  | 10 @ 25  | 0.6 @ 10 (7)   | 1 @ 150(8)                             | 3     |
| 1N2248A | 100                                  | 10 @ 25  | 0.6 @ 10 (7)   | 0.5 @ 150(8)                           | 3     |
| 1N2250  | 200                                  | 10 @ 25  | 0.6 @ 10 (7)   | 1 @ 150(8)                             | 3     |
| 1N2250A | 200                                  | 10 @ 25  | 0.6 @ 10 (7)   | 0.5 @ 150(8)                           | 3     |
| 1N2252  | 300                                  | 10 @ 25  | 0.6 @ 10 (7)   | 1 @ 150(8)                             | 3     |
| 1N2252A | 300                                  | 10 @ 25  | 0.6 @ 10 (7)   | 0.5 @ 150(8)                           | 3     |
| 1N2254  | 400                                  | 10 @ 25  | 0.6 @ 10 (7)   | 1 @ 150(8)                             | 3     |
| 1N2254A | 400                                  | 10 @ 25  | 0.6 @ 10 (7)   | 0.5 @ 150(8)                           | 3     |
| 1N2256  | 500                                  | 10 @ 25  | 0.6 @ 10 (7)   | 1 @ 150(8)                             | 3     |
| 1N2256A | 500                                  | 10 @ 25  | 0.6 @ 10 (7)   | 0.5 @ 150(8)                           | 3     |
| 1N2258  | 600                                  | 10 @ 25  | 0.6 @ 10 (7)   | 1 @ 150(8)                             | 3     |
| 1N2258A | 600                                  | 10 @ 25  | 0.6 @ 10 (7)   | 0.5 @ 150(8)                           | 3     |
| 1N2266  | 50                                   | 0.3 @ 150  | 0.6 @ 1  | .35 @ 150                              | 4     |
| 1N2268  | 500                                  | 0.3 @ 150  | 0.6 @ 1  | .35 @ 150                              | 4     |
| 1N2270  | 600                                  | 0.3 @ 150  | 0.6 @ 1  | .35 @ 150                              | 4     |
| 1N2272  | 50                                   | 6 @ 150  | 1.2 @ 20   | 1 @ 150                                | 3     |
| 1N2273  | 100                                  | 6 @ 150  | 1.2 @ 20   | 1 @ 150                                | 3     |
| 1N2274  | 200                                  | 6 @ 150  | 1.2 @ 20   | 1 @ 150                                | 3     |
| 1N2275  | 300                                  | 6 @ 150  | 1.2 @ 20   | 1 @ 150                                | —     |
| 1N2276  | 400                                  | 6 @ 150  | 1.2 @ 20   | 1 @ 150                                | 3     |
| 1N2277  | 500                                  | 6 @ 150  | 1.2 @ 20   | 1 @ 150                                | —     |
| 1N2278  | 600                                  | 6 @ 150  | 1.2 @ 20   | 1 @ 150                                | 3     |
| 1N2279  | 800                                  | 6 @ 150  | 1.2 @ 20   | 1 @ 150                                | —     |
| 1N2280  | 1000                                 | 20 @ 25(8)   | 0.6 @ 20 (7)   | 1 @ 150(8)                             | —     |
| 1N2281  | 1200                                 | 20 @ 25(8)   | 0.6 @ 20 (7)   | 1 @ 150(8)                             | —     |
| 1N2362  | 1400                                 | 1 @ 25   | 2 @ 1.5(7)   | .001 @ 25 (8)                          | —     |
| 1N2362A | 1400                                 | 5 @ 25(8)  | 2 @ 8 (7)  | .001 @ 25 (8)                          | —     |
| 1N2362B | 1400                                 | 10 @ 25(10)  | 2 @ 15 (7)   | .001 @ 25 (8)                          | —     |
| 1N2364  | 1500                                 | 1 @ 25(8)  | 2 @ 1.5(7)   | .001 @ 25 (8)                          | —     |
| 1N2364A | 1500                                 | 5 @ 25(8)  | 2 @ 8 (7)  | .001 @ 25 (8)                          | —     |
| 1N2364B | 1500                                 | 10 @ 25  | 2 @ 15 (7)   | .001 @ 25 (8)                          | —     |
| 1N2366  | 1600                                 | 1 @ 25(8)  | 2 @ 1.5(7)   | .001 @ 25 (8)                          | —     |
| 1N2366A | 1600                                 | 5 @ 25(8)  | 2 @ 8 (7)  | .001 @ 25 (8)                          | —     |
| 1N2366B | 1600                                 | 10 @ 25  | 2 @ 15 (7)   | .001 @ 25 (8)                          | —     |
| 1N2367  | 1600                                 | 1 @ 25(8)  | 2 @ 1.5(7)   | .001 @ 25 (8)                          | —     |
| 1N2368  | 1800                                 | 1 @ 25(8)  | 2 @ 1.5(7)   | .001 @ 25 (8)                          | —     |
| 1N2368A | 1800                                 | 5 @ 25(8)  | 2 @ 8 (7)  | .001 @ 25 (8)                          | —     |
| 1N2368B | 1800                                 | 10 @ 25(10)  | 2 @ 15 (7)   | .001 @ 25 (8)                          | —     |
| 1N2491  | 50                                   | 6 @ 150  | 2 @ 12   | 2 @ 150                                | 3     |
| 1N2492  | 100                                  | 6 @ 150  | 2 @ 12   | 2 @ 150                                | 3     |
| 1N2493  | 200                                  | 6 @ 150  | 1.2 @ 12   | 2 @ 150                                | 3     |
| 1N2494  | 300                                  | 6 @ 150  | 1.2 @ 12   | 2 @ 150                                | 3     |

# silicon rectifiers cont'd

## stud mounted silicon power rectifiers DO-4 case style — (cont'd)

| Type   | Maximum Peak Reverse Voltage (volts) | Maximum Average Forward Current (Amps) @ Case Temp. (°C) | Maximum Forward Voltage (volts) @ Forward Current (Amps) | Reverse Current (mA) @ Case Temp. (°C) | Notes |
|--------|--------------------------------------|--|--|--|-------|
| 1N2495 | 400                                  | 6 @ 150  | 1.2 @ 12   | 2 @ 150                                | 3     |
| 1N2496 | 500                                  | 6 @ 150  | 1.2 @ 12   | 2 @ 150                                | 3     |
| 1N2497 | 600                                  | 6 @ 150  | 1.2 @ 12   | 2 @ 150                                | 3     |
| 1N2512 | 100                                  | 4 @ 30   | 1.1 @ 1.5(7)   | .002 @ 25 (8)                          | 3     |
| 1N2513 | 200                                  | 4 @ 30   | 1.1 @ 1.5(7)   | 1 @ 150(8)                             | 3     |
| 1N2514 | 300                                  | 4 @ 30   | 1.1 @ 1.5(7)   | 1 @ 150(8)                             | 3     |
| 1N2515 | 400                                  | 4 @ 30(8)  | 1.1 @ 1.5(7)   | .002 @ 25 (8)                          | 3     |
| 1N2516 | 500                                  | 4 @ 30   | 1.1 @ 1.5(7)   | .002 @ 25 (8)                          | 3     |
| 1N2517 | 600                                  | 4 @ 30(16)   | 1.1 @ 1.5(7)   | .002 @ 25 (8)                          | 3     |
| 1N2784 | 200                                  | 22 @ 40(8)   | 1.5 @ 25 (9)   | .002 @ 25 (8)                          | 3     |
| 1N2785 | 400                                  | 22 @ 40(8)   | 1.5 @ 25 (9)   | .002 @ 25 (8)                          | 3     |
| 1N3569 | 100                                  | 3.5 @ 85(10)   | 0.5 @ 2.5(24)  | 0.4 @ 150(8)                           | 3     |
| 1N3570 | 200                                  | 3.5 @ 85(10)   | 0.5 @ 2.5(24)  | 0.4 @ 150(8)                           | 3     |
| 1N3571 | 300                                  | 3.5 @ 85(10)   | 0.5 @ 2.5(24)  | 0.4 @ 150(8)                           | 3     |
| 1N3572 | 400                                  | 3.5 @ 85(10)   | 0.5 @ 2.5(24)  | 0.4 @ 150(8)                           | 3     |
| 1N3573 | 500                                  | 3.5 @ 85(10)   | 0.5 @ 2.5(24)  | 0.4 @ 150(8)                           | 3     |
| 1N3574 | 600                                  | 3.5 @ 85(10)   | 0.5 @ 2.5(24)  | 0.4 @ 150(8)                           | 3     |
| 1N3615 | 50                                   | 16 @ 155(10)   | —  | 3 @ 175(10)                            | 3     |
| 1N3616 | 100                                  | 16 @ 155(10)   | —  | 2.5 @ 175(10)                          | 3     |
| 1N3617 | 150                                  | 16 @ 155(10)   | —  | 2.3 @ 175(10)                          | 3     |
| 1N3618 | 200                                  | 16 @ 155(10)   | —  | 2 @ 175(10)                            | 3     |
| 1N3619 | 300                                  | 16 @ 155(10)   | —  | 1.8 @ 175(10)                          | 3     |
| 1N3620 | 400                                  | 16 @ 155(10)   | —  | 1.7 @ 175(10)                          | 3     |
| 1N3621 | 500                                  | 16 @ 155(10)   | —  | 1.3 @ 175(10)                          | 3     |
| 1N3622 | 600                                  | 16 @ 155(10)   | —  | 1 @ 175(10)                            | 3     |
| 1N3623 | 800                                  | 16 @ 155(10)   | —  | 0.75 @ 175(10)                         | 3     |
| 1N3624 | 1000                                 | 16 @ 155(10)   | —  | 0.6 @ 175(10)                          | 3     |
| 1N3649 | 800                                  | 3 @ 25 (8)   | 1.1 @ 3 (7)  | 0.2 @ 150(8)                           | 3     |
| 1N3650 | 1000                                 | 3 @ 25 (8)   | 1.1 @ 3 (7)  | 0.2 @ 150(8)                           | 3     |
| 1N3919 | 1000                                 | 5 @ 100(8)   | 2 @ 5 (13)   | 0.5 @ 100                              | 3     |
| 1N3934 | 1200                                 | 10 @ 25 (8)  | 2 @ 10(7)  | .001 @ 25 (8)                          | 3     |
| 1N3987 | 700                                  | 6 @ 150  | 1.5  | 1 @ 150(8)                             | 3     |
| 1N3988 | 800                                  | 6 @ 150  | 1.5  | 0.8 @ 150(8)                           | 3     |
| 1N3989 | 900                                  | 6 @ 150  | 1.5  | 0.7 @ 150(8)                           | 3     |
| 1N3990 | 1000                                 | 6 @ 150  | 1.5  | 0.6 @ 150(8)                           | 3     |
| 1N4012 | 700                                  | 12 @ 150   | 1.3 @ 12(24)   | 0.5 @ 150(8)                           | 3     |
| 1N4013 | 800                                  | 12 @ 150   | 1.3 @ 12(24)   | 0.5 @ 150(8)                           | 3     |
| 1N4458 | 800                                  | 5 @ 150(10)  | 1.5 @ 5 (25)   | 0.5 @ 150(10)                          | 3     |
| 1N4459 | 1000                                 | 5 @ 150(10)  | 1.5 @ 5 (25)   | 0.5 @ 150(10)                          | 3     |
| 1N4506 | 200                                  | 12 @ 135   | 1.4 @ 12   | 2.5 @ 135                              | 3     |
| 1N4507 | 400                                  | 12 @ 135   | 1.4 @ 12   | 2.5 @ 135                              | 3     |
| 1N4508 | 600                                  | 12 @ 135   | 1.4 @ 12   | 2.5 @ 135                              | 3     |
| 1N4509 | 800                                  | 12 @ 135   | 1.4 @ 12   | 2.5 @ 135                              | 3     |
| 1N4510 | 1000                                 | 12 @ 135   | 1.4 @ 12   | 2.5 @ 135                              | 3     |
| 1N4511 | 1200                                 | 12 @ 135   | 1.4 @ 12   | 2.5 @ 135                              | 3     |

## DO-5 case style — (cont'd)

| Type    | Maximum Peak Reverse Voltage (volts) | Maximum Average Forward Current (Amps) @ Case Temp. (°C) | Maximum Forward Voltage (volts) @ Forward Current (Amps) | Reverse Current (mA) @ Case Temp. (°C) | Notes |
|---------|--------------------------------------|--|--|--|-------|
| 1N1188A | 400                                  | 40 @ 150   | 1.1 @ 100  | 2.5 @ 150                              | —     |
| 1N1189  | 500                                  | 35 @ 140   | 1.4 @ 100  | 10 @ 140                               | 3     |
| 1N1189A | 500                                  | 40 @ 150   | 1.1 @ 100  | 2.5 @ 150                              | —     |
| 1N1190  | 600                                  | 35 @ 140   | 1.4 @ 100  | 10 @ 140                               | —     |
| 1N1190A | 600                                  | 40 @ 150   | 1.1 @ 100  | 2.5 @ 150                              | —     |
| 1N1191  | 50                                   | 18 @ 140   | 1.3 @ 50   | 10 @ 140                               | 3, 5  |
| 1N1192  | 100                                  | 18 @ 140   | 1.3 @ 50   | 10 @ 140                               | 3, 5  |
| 1N1192A | 100                                  | 22 @ 150   | 1.2 @ 60   | 2.5 @ 150                              | 3     |
| 1N1193  | 150                                  | 18 @ 140   | 1.3 @ 50   | 10 @ 140                               | 3, 5  |
| 1N1193A | 150                                  | 22 @ 150   | 1.2 @ 60   | 2.5 @ 150                              | 3     |
| 1N1194  | 200                                  | 18 @ 140   | 1.3 @ 50   | 10 @ 140                               | 3, 5  |
| 1N1194A | 200                                  | 22 @ 150   | 1.2 @ 60   | 2.5 @ 150                              | 3     |
| 1N1195  | 300                                  | 18 @ 140   | 1.3 @ 50   | 10 @ 140                               | 3, 5  |
| 1N1196  | 400                                  | 18 @ 140   | 1.3 @ 50   | 10 @ 140                               | 3, 5  |
| 1N1196A | 400                                  | 22 @ 150   | 1.2 @ 60   | 2.5 @ 150                              | 3     |
| 1N1197  | 500                                  | 18 @ 140   | 1.3 @ 50   | 10 @ 140                               | 3, 5  |
| 1N1197A | 500                                  | 22 @ 150   | 1.2 @ 60   | 2.5 @ 150                              | 3     |
| 1N1198  | 600                                  | 18 @ 140   | 1.3 @ 50   | 10 @ 140                               | 3, 5  |
| 1N1301  | 50                                   | 37 @ 120   | 1.5 @ 50(7)  | 2.0 @ 150                              | —     |
| 1N1302  | 100                                  | 37 @ 120   | 1.5 @ 50(7)  | 2.0 @ 150                              | —     |
| 1N1304  | 200                                  | 37 @ 120   | 1.5 @ 50(7)  | 2.0 @ 150                              | —     |
| 1N1306  | 300                                  | 37 @ 120   | 1.5 @ 50(7)  | 2.0 @ 150                              | —     |
| 1N1434  | 50                                   | 30 @ 25  | 1.2 @ 60   | 5 @ 150                                | 3     |
| 1N1435  | 100                                  | 30 @ 25  | 1.2 @ 60   | 5 @ 150                                | 3     |
| 1N1436  | 200                                  | 30 @ 25  | 1.2 @ 60   | 5 @ 150                                | 3     |
| 1N1437  | 400                                  | 30 @ 25  | 1.2 @ 60   | 5 @ 150                                | 3     |
| 1N1444  | 1000                                 | 1.6 @ 145  | 1.15 @ 1   | 0.5 @ 125                              | —     |
| 1N2021  | 150                                  | 10 @ 150   | 1.5 @ 25   | 5 @ 150                                | 3     |
| 1N2022  | 250                                  | 10 @ 150   | 1.5 @ 25   | 5 @ 150                                | 3     |
| 1N2023  | 300                                  | 10 @ 150   | 1.5 @ 25   | 5 @ 150                                | 3     |
| 1N2024  | 350                                  | 10 @ 150   | 1.5 @ 25   | 5 @ 150                                | 3     |
| 1N2025  | 400                                  | 10 @ 150   | 1.5 @ 25   | 5 @ 150                                | 3     |
| 1N2154  | 50                                   | 25 @ 145   | 0.6 @ 25   | 5 @ 145                                | 3, 4  |
| 1N2155  | 100                                  | 25 @ 145   | 0.6 @ 25   | 4.5 @ 145                              | 3, 4  |
| 1N2156  | 200                                  | 25 @ 145   | 0.6 @ 25   | 4.0 @ 145                              | 3, 4  |
| 1N2157  | 300                                  | 25 @ 145   | 0.6 @ 25   | 3.5 @ 145                              | 4     |
| 1N2158  | 400                                  | 25 @ 145   | 0.6 @ 25   | 3.0 @ 145                              | 3, 4  |
| 1N2159  | 600                                  | 25 @ 145   | 0.6 @ 25   | 2.5 @ 145                              | 3, 4  |
| 1N2160  | 600                                  | 25 @ 145   | 0.6 @ 25   | 2.0 @ 145                              | 3, 4  |
| 1N2282  | 300                                  | 35 @ 25(8)   | 0.6 @ 35(7)  | 5 @ 150(8)                             | —     |
| 1N2283  | 400                                  | 35 @ 25(8)   | 0.6 @ 35(7)  | 5 @ 150(8)                             | —     |
| 1N2284  | 500                                  | 35 @ 25(8)   | 0.6 @ 35(7)  | 5 @ 150(8)                             | —     |
| 1N2285  | 600                                  | 35 @ 25(8)   | 0.6 @ 35(7)  | 5 @ 150(8)                             | —     |
| 1N2446  | 50                                   | 20 @ 150   | 1.1 @ 20   | 5 @ 150                                | 3     |
| 1N2447  | 100                                  | 20 @ 150   | 1.1 @ 20   | 5 @ 150                                | 3     |
| 1N2448  | 150                                  | 20 @ 150   | 1.1 @ 20   | 5 @ 150                                | 3     |
| 1N2449  | 200                                  | 20 @ 150   | 1.1 @ 20   | 5 @ 150                                | 3     |
| 1N2450  | 250                                  | 20 @ 150   | 1.1 @ 20   | 5 @ 150                                | 3     |
| 1N2451  | 300                                  | 20 @ 150   | 1.1 @ 20   | 5 @ 150                                | 3     |
| 1N2452  | 350                                  | 20 @ 150   | 1.1 @ 20   | 5 @ 150                                | 3     |
| 1N2453  | 400                                  | 20 @ 150   | 1.1 @ 20   | 5 @ 150                                | 3     |
| 1N2454  | 500                                  | 20 @ 150   | 1.1 @ 20   | 5 @ 150                                | 3     |
| 1N2455  | -600                                 | 20 @ 150   | 1.1 @ 20   | 5 @ 150                                | 3     |
| 1N2456  | 700                                  | 20 @ 150   | 1.1 @ 20   | 5 @ 150                                | 3     |
| 1N2457  | 800                                  | 20 @ 150   | 1.1 @ 20   | 5 @ 150                                | 3     |
| 1N2786  | 200                                  | 10 @ 100   | 1.2 @ 10   | 10 @ 150(8)                            | —     |
| 1N2787  | 400                                  | 10 @ 100   | 1.2 @ 10   | 10 @ 150(8)                            | —     |
| 1N2788  | 200                                  | 50 @ 40(8)   | 1.5 @ 100(9)   | 2.0 @ 150                              | —     |
| 1N2789  | 400                                  | 50 @ 40(8)   | 1.5 @ 100(9)   | 2.0 @ 150                              | —     |
| 1N2793  | 50                                   | 5 @ 150  | 1.25 @ 15  | 5 @ 150                                | 3     |
| 1N2794  | 100                                  | 5 @ 150  | 1.25 @ 15  | 5 @ 150                                | 3     |
| 1N2795  | 150                                  | 5 @ 150  | 1.25 @ 15  | 5 @ 150                                | 3     |
| 1N2796  | 200                                  | 5 @ 150  | 1.25 @ 15  | 5 @ 150                                | 3     |
| 1N2797  | 250                                  | 5 @ 150  | 1.25 @ 15  | 5 @ 150                                | 3     |
| 1N2798  | 300                                  | 5 @ 150  | 1.25 @ 15  | 5 @ 150                                | 3     |
| 1N2799  | 350                                  | 5 @ 150  | 1.25 @ 15  | 5 @ 150                                | 3     |
| 1N2800  | 400                                  | 5 @ 150  | 1.25 @ 15  | 5 @ 150                                | 3     |
| 1N3208  | 50                                   | 15 @ 150   | 1.5 @ 40   | 10 @ 150                               | 3     |
| 1N3209  | 100                                  | 15 @ 150   | 1.5 @ 40   | 10 @ 150                               | 3     |

## DO-5 case style

| Type      | Maximum Peak Reverse Voltage (volts) | Maximum Average Forward Current (Amps) @ Case Temp. (°C) | Maximum Forward Voltage (volts) @ Forward Current (Amps) | Reverse Current (mA) @ Case Temp. (°C) | Notes |
|-----------|--------------------------------------|--|--|--|-------|
| 1N248     | 50                                   | 10 @ 150   | 1.5 @ 25   | 5 @ 150                                | 3     |
| 1N248A, B | 50                                   | 20 @ 150   | 1.5 @ 25   | 5 @ 150                                | 3     |
| 1N249     | 100                                  | 10 @ 150   | 1.5 @ 25   | 5 @ 150                                | 3     |
| 1N249A, B | 100                                  | 20 @ 150   | 1.5 @ 25   | 5 @ 150                                | 3     |
| 1N250     | 200                                  | 10 @ 150   | 1.5 @ 25   | 5 @ 150                                | 3     |
| 1N250A, B | 200                                  | 20 @ 150   | 1.5 @ 25   | 5 @ 150                                | 3     |
| 1N1183    | 50                                   | 35 @ 140   | 1.4 @ 100  | 10 @ 140                               | 3     |
| 1N1184    | 100                                  | 35 @ 140   | 1.4 @ 100  | 10 @ 140                               | 3     |
| 1N1184A   | 100                                  | 40 @ 150   | 1.1 @ 100  | 2.5 @ 150                              | —     |
| 1N1185    | 150                                  | 35 @ 140   | 1.4 @ 100  | 10 @ 140                               | 3     |
| 1N1185A   | 150                                  | 40 @ 150   | 1.1 @ 100  | 2.5 @ 150                              | —     |
| 1N1186    | 280                                  | 35 @ 140   | 1.4 @ 100  | 10 @ 140                               | 3     |
| 1N1187    | 300                                  | 35 @ 140   | 1.4 @ 100  | 10 @ 140                               | 3     |
| 1N1187A   | 300                                  | 40 @ 150   | 1.1 @ 100  | 2.5 @ 150                              | —     |
| 1N1188    | 400                                  | 35 @ 140   | 1.4 @ 100  | 10 @ 140                               | 3     |

Notes: (3) Reverse polarity (anode to stud) available; add suffix R  
 (4) V<sub>r</sub> full cycle average (7) At 25°C Ambient (8) Ambient temperature  
 (9) At 25°C case (10) Base temperature (13) At 100°C Ambient (16) Case temperature  
 (24) At 150°C Ambient •(25) At 150°C Base

# stud mounted silicon power rectifiers DO-5 case style — (cont'd)

| Type   | Maximum Peak Reverse Voltage (volts) | Maximum Average Forward Current (Amps) Case Temp. (°C) | Maximum Forward Voltage (volts) Forward Current (Amps) | Reverse Current (mA) Case Temp. (°C) | Notes |
|--------|--------------------------------------|--|--|--------------------------------------|-------|
| 1N3210 | 200                                  | 15 @ 150   | 1.5 @ 40   | 10 @ 150                             | 3     |
| 1N3211 | 300                                  | 15 @ 150   | 1.5 @ 40   | 10 @ 150                             | 3     |
| 1N3212 | 400                                  | 15 @ 150   | 1.5 @ 40   | 10 @ 150                             | 3     |
| 1N3213 | 500                                  | 15 @ 150   | 1.5 @ 40   | 10 @ 150                             | 3     |
| 1N3214 | 600                                  | 15 @ 150   | 1.5 @ 40   | 10 @ 150                             | 3     |
| 1N3765 | 700                                  | 35 @ 140   | 1.8 @  | 5 @ 140(10)                          | 3     |
| 1N3766 | 800                                  | 35 @ 140   | 1.8 @  | 5 @ 140(10)                          | 3     |
| 1N3767 | 900                                  | 35 @ 140   | 1.8 @  | 5 @ 140(10)                          | 3     |
| 1N3768 | 1000                                 | 35 @ 130   | 1.8 @  | 5 @ 140(10)                          | 3     |
| 1N4525 | 200                                  | 35 @ 115   | 1.4 @ 35   | 3.5 @ 115                            | —     |
| 1N4526 | 400                                  | 35 @ 115   | 1.4 @ 35   | 3.5 @ 115                            | —     |
| 1N4527 | 600                                  | 35 @ 115   | 1.4 @ 35   | 3.5 @ 115                            | —     |
| 1N4528 | 800                                  | 35 @ 115   | 1.4 @ 35   | 3.0 @ 115                            | —     |
| 1N4529 | 1000                                 | 35 @ 115   | 1.4 @ 35   | 2.5 @ 115                            | —     |
| 1N4530 | 1200                                 | 35 @ 115   | 1.4 @ 35   | 2.0 @ 115                            | —     |

# DO-8 case style

| TYPE    | MAX. CONT. WORKING VOLTAGE (VOLTS) | MAX. D.C. OUTPUT CURRENT (AMPS) @ Tc(°C) | 1 CYCLE CURRENT SURGE (PEAK AMPS) |
|---------|------------------------------------|--|-----------------------------------|
| 1N3288  | 100                                | 100                                      | 130                               |
| 1N3288A | 100                                | 100                                      | 130                               |
| 1N3289  | 200                                | 100                                      | 130                               |
| 1N3289A | 200                                | 100                                      | 130                               |
| 1N3290  | 300                                | 100                                      | 130                               |
| 1N3290A | 300                                | 100                                      | 130                               |
| 1N3291  | 400                                | 100                                      | 130                               |
| 1N3291A | 400                                | 100                                      | 130                               |
| 1N3292  | 500                                | 100                                      | 130                               |
| 1N3292A | 500                                | 100                                      | 130                               |
| 1N3292B | 500                                | 100                                      | 130                               |
| 1N3293  | 600                                | 100                                      | 130                               |
| 1N3293A | 600                                | 100                                      | 130                               |
| 1N3294  | 800                                | 100                                      | 130                               |
| 1N3294A | 800                                | 100                                      | 130                               |
| 1N3295  | 1000                               | 100                                      | 130                               |
| 1N3295A | 1000                               | 100                                      | 130                               |
| 1N3296  | 1200                               | 100                                      | 130                               |
| 1N3296A | 1200                               | 100                                      | 130                               |
| 1N3297  | 1400                               | 100                                      | 130                               |
| 1N3297A | 1400                               | 100                                      | 130                               |
| 1N3972  | 200                                | 104                                      | 120                               |
| 1N3973  | 400                                | 104                                      | 120                               |
| 1N3974  | 600                                | 104                                      | 120                               |
| 1N3975  | 800                                | 104                                      | 120                               |
| 1N4587  | 100                                | 150                                      | 110                               |
| 1N4588  | 200                                | 150                                      | 110                               |
| 1N4589  | 300                                | 150                                      | 110                               |
| 1N4590  | 400                                | 150                                      | 110                               |
| 1N4591  | 500                                | 150                                      | 110                               |
| 1N4592  | 600                                | 150                                      | 110                               |
| 1N4593  | 800                                | 150                                      | 110                               |
| 1N4594  | 1000                               | 150                                      | 110                               |
| 1N4595  | 1200                               | 150                                      | 110                               |
| 1N4596  | 1400                               | 150                                      | 110                               |
| 1N4878  | 100                                | 100                                      | 120                               |

# DO-30 case style

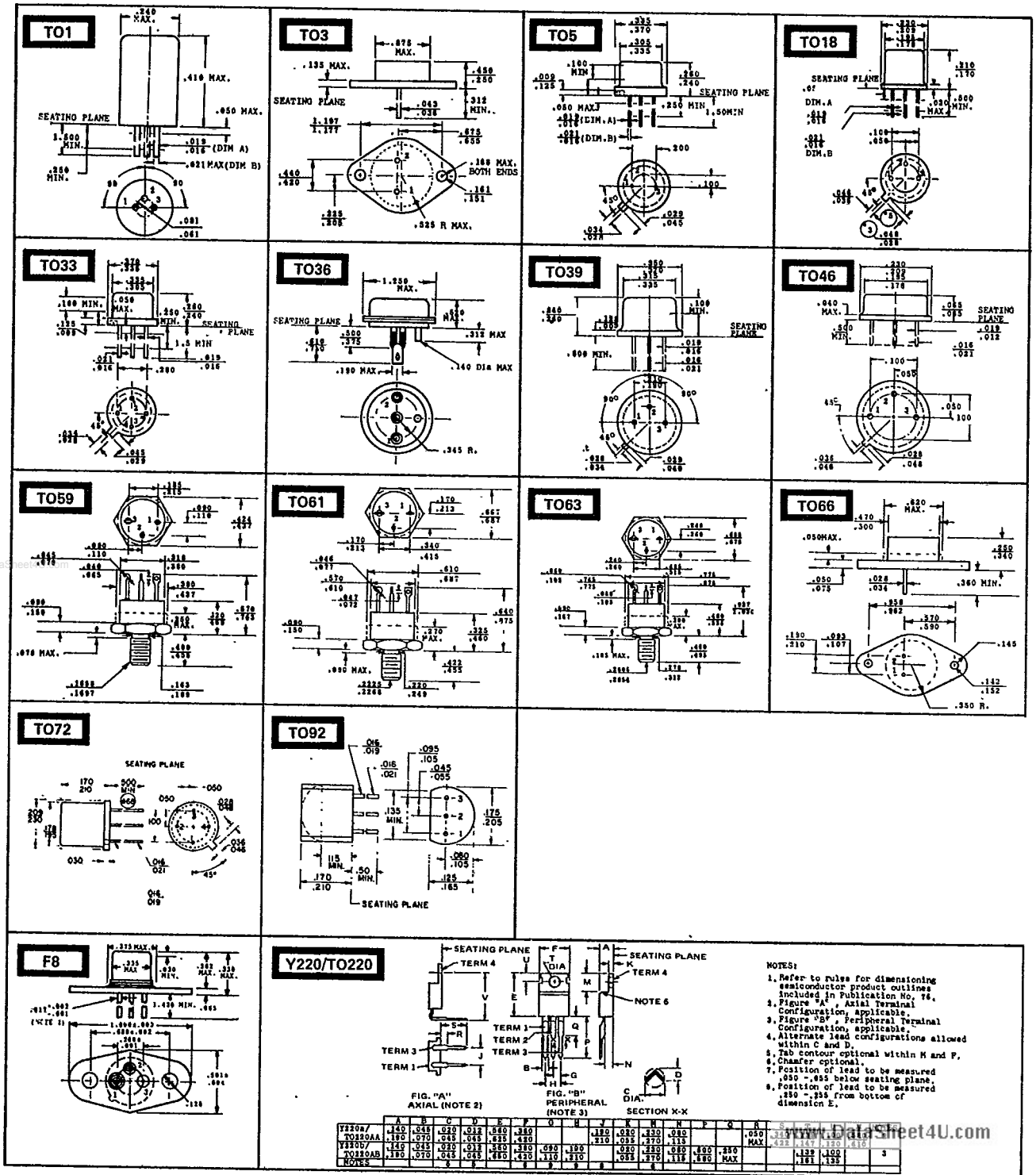
|        |      |           |               |          |   |
|--------|------|-----------|---------------|----------|---|
| 1N3085 | 100  | 150 @ 100 | 1.2 @ 150(17) | 25 @ 150 | 3 |
| 1N3086 | 200  | 150 @ 100 | 1.2 @ 150(17) | 17 @ 150 | 3 |
| 1N3087 | 300  | 150 @ 100 | 1.2 @ 150(17) | 17 @ 150 | 3 |
| 1N3088 | 400  | 150 @ 100 | 1.2 @ 150(17) | 17 @ 150 | 3 |
| 1N3089 | 500  | 150 @ 100 | 1.2 @ 150(17) | 17 @ 150 | 3 |
| 1N3090 | 600  | 150 @ 100 | 1.2 @ 150(17) | 17 @ 150 | 3 |
| 1N3091 | 800  | 150 @ 100 | 1.2 @ 150(17) | 16 @ 150 | 3 |
| 1N3092 | 1000 | 150 @ 100 | 1.2 @ 150(17) | 12 @ 150 | 3 |

# DO-9 case style

| Type   | Maximum Peak Reverse Voltage (volts) | Maximum Average Forward Current (Amps) Case Temp. (°C) | Maximum Forward Voltage (volts) Forward Current (Amps) | Reverse Current (mA) Case Temp. (°C) | Notes |
|--------|--------------------------------------|--|--|--------------------------------------|-------|
| 1N2054 | 50                                   | 250 @ 100  | 1.3 @ 250(20)  | 25 @ 135(8) @ 40V                    | 3     |
| 1N2055 | 100                                  | 250 @ 100  | 1.3 @ 250(20)  | 25 @ 135(8) @ 80V                    | 3     |
| 1N2056 | 150                                  | 250 @ 100  | 1.3 @ 250(20)  | 25 @ 135(8) @ 120V                   | 3     |
| 1N2057 | 200                                  | 250 @ 100  | 1.3 @ 250(20)  | 17 @ 135(8) @ 160V                   | 3     |
| 1N2058 | 250                                  | 250 @ 100  | 1.3 @ 250(20)  | 17 @ 135(8) @ 200V                   | 3     |
| 1N2059 | 300                                  | 250 @ 100  | 1.3 @ 250(20)  | 17 @ 135(8) @ 240V                   | 3     |
| 1N2060 | 350                                  | 250 @ 100  | 1.3 @ 250(20)  | 17 @ 135(8) @ 280V                   | 3     |
| 1N2061 | 400                                  | 250 @ 100  | 1.3 @ 250(20)  | 17 @ 135(8) @ 320V                   | 3     |
| 1N2062 | 450                                  | 250 @ 100  | 1.3 @ 250(20)  | 17 @ 135(8) @ 360V                   | 3     |
| 1N2063 | 500                                  | 250 @ 100  | 1.3 @ 250(20)  | 17 @ 135(8) @ 400V                   | 3     |
| 1N2064 | 600                                  | 250 @ 100  | 1.3 @ 250(20)  | 17 @ 135(8) @ 480V                   | 3     |
| 1N2065 | 700                                  | 250 @ 100  | 1.3 @ 250(20)  | 17 @ 135(8) @ 560V                   | 3     |
| 1N2066 | 800                                  | 250 @ 100  | 1.3 @ 250(20)  | 16 @ 135(8) @ 650V                   | 3     |
| 1N2067 | 900                                  | 250 @ 100(8)   | 1.3 @ 250(20)  | 14 @ 135(8) @ 720V                   | 3     |
| 1N2068 | 1000                                 | 250 @ 100(8)   | 1.3 @ 250(20)  | 12 @ 135(8) @ 800V                   | 3     |
| 1N3175 | 1200                                 | 240 @ 100  | 1.4 @  | 15 @ 100(21)                         | —     |
| 1N3176 | 1400                                 | 240 @ 100  | 1.4 @  | 15 @ 100(21)                         | —     |
| 1N3260 | 50                                   | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3261 | 100                                  | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3262 | 150                                  | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125 @ 100V                      | 3     |
| 1N3263 | 200                                  | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3264 | 250                                  | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3265 | 300                                  | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3266 | 350                                  | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3267 | 400                                  | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3268 | 500                                  | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3269 | 600                                  | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3270 | 700                                  | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3271 | 800                                  | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3272 | 900                                  | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3273 | 1000                                 | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3274 | 1200                                 | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3275 | 1400                                 | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3276 | 1600                                 | 160 @ 125  | 1.25 @ 160(22)   | 12 @ 125                             | 3     |
| 1N3735 | 100                                  | 250 @ 130  | 1.1 @ 250(23)  | 16 @ 130(10)                         | 3     |
| 1N3736 | 200                                  | 250 @ 130  | 1.1 @ 250(23)  | 16 @ 130(10)                         | 3     |
| 1N3737 | 300                                  | 250 @ 130  | 1.1 @ 250(23)  | 16 @ 130(10)                         | 3     |
| 1N3738 | 400                                  | 250 @ 130  | 1.1 @ 250(23)  | 16 @ 130(10)                         | 3     |
| 1N3739 | 500                                  | 250 @ 130  | 1.1 @ 250(23)  | 13 @ 130(10)                         | 3     |
| 1N3740 | 600                                  | 250 @ 130  | 1.1 @ 250(23)  | 12 @ 130(10)                         | 3     |
| 1N3741 | 800                                  | 250 @ 130  | 1.1 @ 250(23)  | 9.0 @ 130(10)                        | 3     |
| 1N3742 | 1000                                 | 250 @ 130  | 1.1 @ 250(23)  | 7.0 @ 130(10)                        | 3     |
| 1N3743 | 1200                                 | 250 @ 130  | 1.1 @ 250(23)  | 7.0 @ 130(10)                        | 3     |
| 1N3744 | 1400                                 | 250 @ 130  | 1.1 @ 250(23)  | 7.0 @ 130(10)                        | 3     |
| 1N4044 | 50                                   | 275 @ 120  | 1.35 @ 275(19)   | 15 @ 120                             | 3     |
| 1N4045 | 100                                  | 275 @ 120  | 1.35 @ 275(19)   | 15 @ 120                             | 3     |
| 1N4046 | 150                                  | 275 @ 120  | 1.35 @ 275(19)   | 15 @ 120                             | 3     |
| 1N4047 | 200                                  | 275 @ 120  | 1.35 @ 275(19)   | 15 @ 120                             | 3     |
| 1N4048 | 250                                  | 275 @ 120  | 1.35 @ 275(19)   | 15 @ 120                             | 3     |
| 1N4049 | 300                                  | 275 @ 120  | 1.35 @ 275(19)   | 15 @ 120                             | 3     |
| 1N4050 | 400                                  | 275 @ 120  | 1.35 @ 275(19)   | 15 @ 120                             | 3     |
| 1N4051 | 500                                  | 275 @ 120  | 1.35 @ 275(19)   | 15 @ 120                             | 3     |
| 1N4052 | 600                                  | 275 @ 120  | 1.35 @ 275(19)   | 15 @ 120                             | 3     |
| 1N4053 | 700                                  | 275 @ 120  | 1.35 @ 275(19)   | 15 @ 120                             | 3     |
| 1N4054 | 800                                  | 275 @ 120  | 1.35 @ 275(19)   | 15 @ 120                             | 3     |
| 1N4055 | 900                                  | 275 @ 120  | 1.35 @ 275(19)   | 15 @ 120                             | 3     |
| 1N4056 | 1000                                 | 275 @ 120  | 1.35 @ 275(19)   | 15 @ 120                             | 3     |
| 1N4879 | 100                                  | 160 @ 120  | 1.2 @ 250(19)  | 10 @ 120                             | —     |
| 1N4880 | 100                                  | 250 @ 120  | 1.2 @ 250(19)  | 10 @ 120                             | —     |

Note: (3) Reverse polarity (anode to stud) available; add suffix R

# case outline drawings



|         | A    | B    | C    | D    | E    | F    | G | H | I    | J    | K    | L    | M | N | P | Q | R | S | T | U | V | W | X | Y | Z |
|---------|------|------|------|------|------|------|---|---|------|------|------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Y220A   | .140 | .348 | .020 | .022 | .580 | .380 |   |   | .180 | .020 | .030 | .080 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| T0220AA | .180 | .070 | .045 | .045 | .025 | .430 |   |   | .210 | .025 | .070 | .115 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Y220D   | .180 | .075 | .045 | .045 | .025 | .430 |   |   | .210 | .025 | .070 | .115 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| T0220AB | .180 | .070 | .045 | .045 | .025 | .430 |   |   | .210 | .025 | .070 | .115 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| NOTES   |      |      |      |      |      |      |   |   |      |      |      |      |   |   |   |   |   |   |   |   |   |   |   |   |   |

