

# SILICON DIODES

ITT SEMICONDUCTORS

87 DE 4684955 0002326 4

## General Purpose and Switching Diodes in DO-35 Package

| Type    | Peak Inv. Voltage PIV | Max. Aver. Rectified Current $I_0$ | Power Dissipation at 25°C | Junction Temperature $T_J$ | Forward Voltage Drop $V_F$ | Reverse Current $I_R$ |          | Reverse Recovery Time |          | Conditions   |
|---------|-----------------------|------------------------------------|---------------------------|----------------------------|----------------------------|-----------------------|----------|-----------------------|----------|--|
|         |                       |                                    |                           |                            |                            | at $I_F$              | at $V_R$ | $t_{rr}$ ns           |          |  |
|         | Volts                 | mA                                 | max. mW                   | max. °C                    | max. V                     | mA                    | max. nA  | Volts                 |          |  |
| BA170   | 20                    | 150                                | 300                       | 150                        | 1.0                        | 80                    | 50       | 10                    | 100      | $I_F = I_R = 10$ mA, to $I_R = 1$ mA                             |
| BA201   | 50                    | 150                                | 500                       | 150                        | 1.2                        | 100                   | 100      | 30                    | 4.0      | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| BAV17   | 25                    | 200                                | 400                       | 175                        | 1.0                        | 100                   | 100      | 20                    | max. 50  | $I_F = I_R = 30$ mA, $R_L = 100 \Omega$ to $I_R = 3$ mA          |
| BAV18   | 60                    | 200                                | 400                       | 175                        | 1.0                        | 100                   | 100      | 50                    | max. 50  | $I_F = I_R = 30$ mA, $R_L = 100 \Omega$ to $I_R = 3$ mA          |
| BAV19   | 120                   | 200                                | 400                       | 175                        | 1.0                        | 100                   | 100      | 100                   | max. 50  | $I_F = I_R = 30$ mA, $R_L = 100 \Omega$ to $I_R = 3$ mA          |
| BAV20   | 200                   | 200                                | 400                       | 175                        | 1.0                        | 100                   | 100      | 150                   | max. 50  | $I_F = I_R = 30$ mA, $R_L = 100 \Omega$ to $I_R = 3$ mA          |
| BAV21   | 250                   | 200                                | 400                       | 175                        | 1.0                        | 100                   | 100      | 200                   | max. 50  | $I_F = I_R = 30$ mA, $R_L = 100 \Omega$ to $I_R = 3$ mA          |
| BAW75   | 35                    | 150                                | 500                       | 200                        | 1.0                        | 30                    | 100      | 25                    | max. 2.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ to $I_R = 1$ mA   |
| BAW76   | 75                    | 150                                | 500                       | 200                        | 1.0                        | 100                   | 100      | 50                    | max. 2.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ to $I_R = 1$ mA   |
| BAX13   | 50                    | 48                                 | 500                       | 200                        | 1.53                       | 75                    | 200      | 50                    | max. 4.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ to $I_R = 1$ mA   |
| BAX16   | 165                   | 200                                | 400                       | 175                        | 1.3                        | 100                   | 100      | 150                   | max. 120 | $I_F = I_R = 30$ mA, $R_L = 100 \Omega$ , to $I_R = 3$ mA        |
| BAY80   | 150                   | 100                                | 400                       | 175                        | 1.0                        | 100                   | 100      | 120                   | max. 50  | $I_F = I_R = 30$ mA, $R_L = 100 \Omega$ , to $I_R = 3$ mA        |
| ITT600  | 75                    | 200                                | 500                       | 200                        | 1.0                        | 200                   | 100      | 50                    | max. 4.0 | $I_F = I_R = 10$ to 200 mA, to 0.1 $I_F$                         |
| ITT601  | 50                    | 200                                | 500                       | 200                        | 1.0                        | 400                   | 100      | 30                    | max. 6.0 | $I_F = I_R = 10$ to 200 mA, to 0.1 $I_F$                         |
| ITT2001 | 100                   | 150                                | 300                       | 175                        | 1.0                        | 100                   | 100      | 50                    | 50       | $I_F = I_R = 30$ mA, $R_L = 100 \Omega$ , to $I_R = 3$ mA        |
| ITT2002 | 200                   | 150                                | 300                       | 175                        | 1.0                        | 100                   | 100      | 150                   | 50       | $I_F = I_R = 30$ mA, $R_L = 100 \Omega$ , to $I_R = 3$ mA        |
| ITT2003 | 250                   | 150                                | 300                       | 175                        | 1.0                        | 100                   | 100      | 150                   | 50       | $I_F = I_R = 30$ mA, $R_L = 100 \Omega$ , to $I_R = 3$ mA        |
| ITT3001 | 70                    | 100                                | 250                       | 175                        | 1.0                        | 100                   | 25       | 60                    | --       | --   |
| ITT3002 | 150                   | 100                                | 250                       | 175                        | 1.0                        | 100                   | 1.0      | 125                   | --       | --   |
| ITT3003 | 200                   | 100                                | 250                       | 175                        | 1.0                        | 100                   | 25       | 175                   | --       | --   |
| WG713   | 35                    | 100                                | 400                       | --                         | 1.0                        | 100                   | 100      | 30                    | 6.0      | $I_F = I_R = 10$ mA, to $I_R = 10$ mA                            |
| WG1010A | 15                    | 5.0                                | 400                       | --                         | 1.0                        | 50                    | 1000     | 10                    | --       | --   |
| 1N456A  | 30                    | 150                                | 400                       | 175                        | 1.0                        | 100                   | 25       | 25                    | --       | --   |
| 1N457   | 60                    | 150                                | 400                       | 175                        | 1.0                        | 20                    | 25       | 60                    | --       | --   |
| 1N458A  | 150                   | 150                                | 400                       | 175                        | 1.0                        | 100                   | 25       | 125                   | --       | --   |
| 1N459A  | 200                   | 150                                | 400                       | 175                        | 1.0                        | 100                   | 25       | 175                   | --       | --   |
| 1N483A  | 70                    | 150                                | 400                       | 175                        | 1.0                        | 100                   | 25       | 60                    | --       | --   |
| 1N483B  | 80                    | 150                                | 400                       | 175                        | 1.0                        | 100                   | 25       | 60                    | --       | --   |
| 1N484A  | 150                   | 150                                | 400                       | 175                        | 1.0                        | 100                   | 25       | 125                   | --       | --   |
| 1N484B  | 150                   | 150                                | 400                       | 175                        | 1.0                        | 100                   | 250      | 125                   | --       | --   |
| 1N485   | 200                   | 150                                | 400                       | 175                        | 1.0                        | 100                   | 250      | 175                   | --       | --   |
| 1N485A  | 200                   | 150                                | 400                       | 175                        | 1.0                        | 100                   | 25       | 175                   | --       | --   |
| 1N485B  | 200                   | 150                                | 400                       | 175                        | 1.0                        | 100                   | 25       | 175                   | --       | --   |
| 1N486   | 250                   | 150                                | 400                       | 175                        | 1.1                        | 100                   | 250      | 225                   | --       | --   |
| 1N486B  | 250                   | 150                                | 400                       | 175                        | 1.1                        | 100                   | 25       | 225                   | --       | --   |
| 1N914   | 100                   | 75                                 | 500                       | 200                        | 1.0                        | 10                    | 25       | 20                    | max. 4.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| 1N916   | 100                   | 75                                 | 500                       | 200                        | 1.0                        | 10                    | 25       | 20                    | max. 4.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| 1N4148* | 100                   | 150                                | 500                       | 200                        | 1.0                        | 10                    | 25       | 20                    | max. 4.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| 1N4149* | 100                   | 150                                | 500                       | 200                        | 1.0                        | 10                    | 25       | 20                    | max. 4.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| 1N4150* | 50                    | 200                                | 500                       | 200                        | 1.0                        | 200                   | 100      | 50                    | max. 4.0 | $I_F = I_R = 10$ to 200 mA, to 0.1 $I_F$                         |
| 1N4151* | 75                    | 150                                | 500                       | 200                        | 1.0                        | 50                    | 50       | 50                    | max. 2.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| 1N4152* | 40                    | 150                                | 400                       | 175                        | 0.55                       | 0.10                  | 50       | 30                    | max. 2.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| 1N4153* | 75                    | 150                                | 400                       | 175                        | 0.55                       | 0.10                  | 50       | 50                    | max. 2.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| 1N4154* | 35                    | 150                                | 500                       | 200                        | 1.0                        | 30                    | 100      | 25                    | max. 2.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| 1N4305  | 75                    | 150                                | 400                       | 175                        | 0.58                       | 0.25                  | 100      | 50                    | max. 2.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| 1N4446* | 100                   | 150                                | 500                       | 200                        | 1.0                        | 20                    | 25       | 20                    | max. 4.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| 1N4447* | 100                   | 150                                | 500                       | 200                        | 1.0                        | 20                    | 25       | 20                    | max. 4.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| 1N4448* | 100                   | 150                                | 500                       | 200                        | 1.0                        | 100                   | 25       | 20                    | max. 4.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| 1N4449* | 100                   | 150                                | 500                       | 200                        | 1.0                        | 100                   | 25       | 20                    | max. 4.0 | $I_F = 10$ mA, $V_R = 6$ V, $R_L = 100 \Omega$ , to $I_R = 1$ mA |
| 1N4450* | 40                    | 150                                | 400                       | 175                        | 0.54                       | 0.50                  | 50       | 30                    | max. 4.0 | $I_F = I_R = 10$ mA, to $I_R = 1$ mA                             |
| 1N4451* | 40                    | 150                                | 400                       | 175                        | 0.50                       | 0.10                  | 50       | 30                    | max. 10  | $I_F = I_R = 10$ mA, to $I_R = 1$ mA                             |
| 1N4453* | 30                    | 150                                | 400                       | 175                        | 0.55                       | 0.01                  | 50       | 20                    | --       | --   |
| 1N4454* | 75                    | 150                                | 400                       | 175                        | 1.0                        | 10                    | 100      | 50                    | max. 4.0 | $I_F = I_R = 10$ mA, to $I_R = 1$ mA                             |

The following types are also available to specification CECC 50001-024: BAV17, BAV18, BAV19, BAV20 and BAV21.

The following types are also available to specification CECC 50001-023: 1N4148, 1N4149, 1N4447, 1N4448 and 1N4449.

\*During 1987, branding of these diodes will be changed from letters to the international color code.