

# DO-41 Professional Grade Zener Diodes (1 W)

| Electrical Characteristics (At Ta=25°C, Unless Otherwise Specified) |                                    |                                    |                 |                                    |                 |                                          |                                                   |                |                 |                  |                |                                 |  |
|---------------------------------------------------------------------|------------------------------------|------------------------------------|-----------------|------------------------------------|-----------------|------------------------------------------|---------------------------------------------------|----------------|-----------------|------------------|----------------|---------------------------------|--|
| Type No.                                                            | V <sub>ZT</sub> at I <sub>ZT</sub> | r <sub>ZT</sub> at I <sub>ZT</sub> | I <sub>ZT</sub> | r <sub>ZK</sub> at I <sub>ZK</sub> | I <sub>ZK</sub> | Temp. Coeff. of Zener Voltage typ (%/°C) | I <sub>R</sub> at V <sub>R</sub> Ta 25°C max (μA) | V <sub>R</sub> | I <sub>ZM</sub> | I <sub>ZSM</sub> | P <sub>D</sub> | V <sub>F</sub> @ I <sub>F</sub> |  |
|                                                                     | min nom max (V)                    | max (Ohm)                          | (mA)            | max (Ohm)                          | (mA)            |                                          |                                                   | (V)            | (mA)            | (mA)             | (W)            | max (V) @ (mA)                  |  |
| 1N4746                                                              | 18                                 | 20                                 | 14              | 750                                | 0.25            | +0.08                                    | 5                                                 | 13.7           | 50              | 250              | 1              | 1.5 200                         |  |
| 1N4747                                                              | 20                                 | 22                                 | 12.5            | 750                                | 0.25            | +0.08                                    | 5                                                 | 15.2           | 45              | 225              | 1              | 1.5 200                         |  |
| 1N4748                                                              | 22                                 | 23                                 | 11.5            | 750                                | 0.25            | +0.08                                    | 5                                                 | 16.7           | 41              | 205              | 1              | 1.5 200                         |  |
| 1N4749                                                              | 24                                 | 25                                 | 10.5            | 750                                | 0.25            | +0.08                                    | 5                                                 | 18.2           | 38              | 190              | 1              | 1.5 200                         |  |
| 1N4750                                                              | 27                                 | 35                                 | 9.5             | 750                                | 0.25            | +0.09                                    | 5                                                 | 20.6           | 34              | 170              | 1              | 1.5 200                         |  |
| 1N4751                                                              | 30                                 | 40                                 | 8.5             | 1000                               | 0.25            | +0.09                                    | 5                                                 | 22.8           | 30              | 150              | 1              | 1.5 200                         |  |
| 1N4752                                                              | 33                                 | 45                                 | 7.5             | 1000                               | 0.25            | +0.09                                    | 5                                                 | 25.1           | 27              | 135              | 1              | 1.5 200                         |  |
| 1N4753                                                              | 36                                 | 50                                 | 7               | 1000                               | 0.25            | +0.09                                    | 5                                                 | 27.4           | 25              | 125              | 1              | 1.5 200                         |  |
| 1N4754                                                              | 39                                 | 60                                 | 6.5             | 1000                               | 0.25            | +0.09                                    | 5                                                 | 29.7           | 23              | 115              | 1              | 1.5 200                         |  |
| 1N4755                                                              | 43                                 | 70                                 | 6               | 1500                               | 0.25            | +0.09                                    | 5                                                 | 32.7           | 22              | 110              | 1              | 1.5 200                         |  |
| 1N4756                                                              | 47                                 | 80                                 | 5.5             | 1500                               | 0.25            | +0.09                                    | 5                                                 | 35.8           | 19              | 95               | 1              | 1.5 200                         |  |
| 1N4757                                                              | 51                                 | 95                                 | 5               | 1500                               | 0.25            | +0.09                                    | 5                                                 | 38.8           | 18              | 90               | 1              | 1.5 200                         |  |

NOTE: No Suffix = ±10% Tolerance, Suffix "A" = ±5% Tolerance