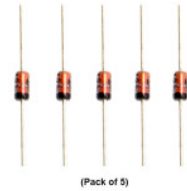




**PRODUCT NAME :** 1N758 10V 400mW Zener Diodes

**PRICE :** Rs 20.00

**SKU :** RM1773



## DESCRIPTION

with the product name or service to be used. Copyrights by Robomart.com

A diode is a two-terminal electronic component with asymmetric conductance; it has low resistance to current in one direction, and high resistance in the other direction.

## Features

- Nominal Zener Voltage ( $V_z$ ): 10V
- Maximum Regulator Current ( $I_{zm}$ ): 0.035A
- Max. Reverse Leakage Current ( $I_r$ ): 0.1uA
- Forward Voltage Drop ( $V_f$ ): 1.5V
- Total Power Dissipation ( $P_{tot}$ ): 500mW

**NEW PRODUCT**

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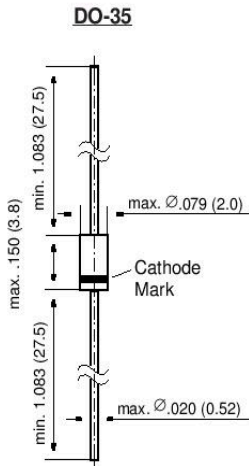
**NEW PRODUCT**

# 1N746 THRU 1N759

## ZENER DIODES

### FEATURES

- ◆ Silicon Planar Power Zener Diodes
- ◆ Standard Zener voltage tolerance is  $\pm 5\%$  for "A" suffix. Other tolerances are available upon request.



Dimensions are in inches and (millimeters)

### MECHANICAL DATA

**Case:** DO-35 Glass Case

**Weight:** approx. 0.13 g

### MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified.

|   | SYMBOL   | VALUE              | UNIT |
|---|----------|--------------------|------|
| Zener Current (see Table "Characteristics")   |          |                    |      |
| Power Dissipation at $T_L = 75^\circ\text{C}$ | $P_{ot}$ | 500 <sup>(1)</sup> | mW   |
| Maximum Junction Temperature                  | $T_j$    | 175                | °C   |
| Storage Temperature Range                     | $T_s$    | - 65 to +175       | °C   |

**NOTES:**

(1)  $T_L$  is measured 3/8" from body.

|   | SYMBOL     | MIN. | TYP. | MAX.               | UNIT  |
|---|------------|------|------|--------------------|-------|
| Thermal Resistance<br>Junction to Ambient Air | $R_{thJA}$ | -    | -    | 300 <sup>(1)</sup> | °C/W  |
| Forward Voltage<br>at $I_F = 200\text{ mA}$   | $V_F$      | -    | -    | 1.5                | Volts |

**NOTES:**

(1) Valid provided that leads at a distance of 3/8" from case are kept at ambient temperature.

# 1N746 THRU 1N759

## ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| Type Number | Nominal Zener Voltage $V_Z @ I_{ZT}^{(3)}$ (Volts) | Test Current $I_{ZT}$ (mA) | Maximum Zener Impedance $Z_{ZT} @ I_{ZT}^{(1)}$ ( $\Omega$ ) | Maximum Regulator Current $I_{ZM}^{(2)}$ (mA) | Maximum Reverse Leakage Current                                       |  |
|-------------|--|----------------------------|--|---|---|--|
|             |  |                            |  |   | $T_A = 25^\circ\text{C}$<br>$I_R @ V_R = 1\text{V}$ ( $\mu\text{A}$ ) | $T_A = 150^\circ\text{C}$<br>$I_R @ V_R = 1\text{V}$ ( $\mu\text{A}$ ) |
| 1N746A      | 3.3  | 20                         | 28   | 110   | 10  | 30   |
| 1N747A      | 3.6  | 20                         | 24   | 100   | 10  | 30   |
| 1N748A      | 3.9  | 20                         | 23   | 95  | 10  | 30   |
| 1N749A      | 4.3  | 20                         | 22   | 85  | 2   | 30   |
| 1N750A      | 4.7  | 20                         | 19   | 75  | 2   | 30   |
| 1N751A      | 5.1  | 20                         | 17   | 70  | 1   | 20   |
| 1N752A      | 5.6  | 20                         | 11   | 65  | 1   | 20   |
| 1N753A      | 6.2  | 20                         | 7  | 60  | 0.1   | 20   |
| 1N754A      | 6.8  | 20                         | 5  | 55  | 0.1   | 20   |
| 1N755A      | 7.5  | 20                         | 6  | 50  | 0.1   | 20   |
| 1N756A      | 8.2  | 20                         | 8  | 45  | 0.1   | 20   |
| 1N757A      | 9.1  | 20                         | 10   | 40  | 0.1   | 20   |
| 1N758A      | 10   | 20                         | 17   | 35  | 0.1   | 20   |
| 1N759A      | 12   | 20                         | 30   | 30  | 0.1   | 20   |

**NOTES:**

- (1) The Zener Impedance is derived from the 1 KHz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current ( $I_{ZT}$ ) is superimposed on  $I_{ZT}$ . Zener Impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.
- (2) Valid provided that leads at a distance of 3/8" from case are kept at ambient temperature.
- (3) Measured with device junction in thermal equilibrium.



