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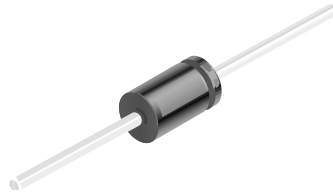


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# 1N486B



**DO-35**

Color Band Denotes Cathode

## Small Signal Diode

### Absolute Maximum Ratings\*

$T_A = 25^\circ\text{C}$  unless otherwise noted

| Symbol      | Parameter  | Value       | Units            |
|-------------|--|-------------|------------------|
| $V_{RRM}$   | Maximum Repetitive Reverse Voltage   | 250         | V                |
| $I_{F(AV)}$ | Average Rectified Forward Current  | 200         | mA               |
| $I_{FSM}$   | Non-repetitive Peak Forward Surge Current<br>Pulse Width = 1.0 second<br>Pulse Width = 1.0 microsecond | 1.0<br>4.0  | A<br>A           |
| $T_{stg}$   | Storage Temperature Range  | -65 to +200 | $^\circ\text{C}$ |
| $T_J$       | Operating Junction Temperature   | 175         | $^\circ\text{C}$ |

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

**NOTES:**

- 1) These ratings are based on a maximum junction temperature of 200 degrees C.
- 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

### Thermal Characteristics

| Symbol          | Parameter                               | Value | Units              |
|-----------------|---|-------|--------------------|
| $P_D$           | Power Dissipation                       | 500   | mW                 |
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient | 300   | $^\circ\text{C/W}$ |

### Electrical Characteristics

$T_A = 25^\circ\text{C}$  unless otherwise noted

| Symbol | Parameter         | Test Conditions   | Min | Max      | Units               |
|--------|-------------------|---|-----|----------|---------------------|
| $V_R$  | Breakdown Voltage | $I_R = 100 \mu\text{A}$   | 250 |          | V                   |
| $V_F$  | Forward Voltage   | $I_F = 100 \text{ mA}$  |     | 1.0      | V                   |
| $I_R$  | Reverse Current   | $V_R = 225 \text{ V}$<br>$V_R = 225 \text{ V}, T_A = 150^\circ\text{C}$ |     | 50<br>10 | nA<br>$\mu\text{A}$ |

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