

# 1N483B

## Small Signal Diode



**DO-35**  
Color Band Denotes Cathode

### Absolute Maximum Ratings \* $T_a = 25^\circ\text{C}$ unless otherwise noted

| Symbol      | Parameter                                                                                              | Value       | Unit             |
|-------------|--------------------------------------------------------------------------------------------------------|-------------|------------------|
| $V_{RRM}$   | Maximum Repetitive Reverse Voltage                                                                     | 80          | 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         | A                |
|             |                                                                                                        | 4.0         | 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 the diode may be impaired.

#### NOTES:

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

### Thermal Characteristics

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

### Electrical Characteristics $T_C = 25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter         | Conditions                                  | Min. | Max | Units         |
|--------|-------------------|---------------------------------------------|------|-----|---------------|
| $V_R$  | Breakdown Voltage | $I_R = 100\mu\text{A}$                      | 80   |     | V             |
| $V_F$  | Forward Voltage   | $I_F = 100\text{mA}$                        |      | 1.0 | V             |
| $I_R$  | Reverse Leakage   | $V_R = 60\text{V}$                          |      | 25  | nA            |
|        |                   | $V_R = 60\text{V}, T_A = 150^\circ\text{C}$ |      | 5   | $\mu\text{A}$ |

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Rev. 115