

1N458A



DO-35 COLOR BAND DENOTES CATHODE

Small Signal Diode

Absolute Maximum Ratings * T_A = 25°C unless otherwise noted

| Symbol | Parameter | Value | Units | |
|--------------------|---|-------------|-------|--|
| V_{RRM} | Maximum Repetitive Reverse Voltage | 150 | V | |
| I _{F(AV)} | Average Rectified Forward Current | 500 | mA | |
| I _{FSM} | Non-repetitive Peak Forward Surge Current | | | |
| | Pulse Width = 1.0 second | 1.0 | Α | |
| | Pulse Width = 1.0 microsecond | 4.0 | Α | |
| T _{STG} | Storage Temperature Range | -65 to +200 | °C | |
| Г _Ј | Operating Junction Temperature | 175 | °C | |

^{*} These ratings are limiting values above which the serviceability of the diode may be impaired.

Thermal Characteristics

| Symbol | Parameter | Value | Units | |
|-----------------|---|-------|-------|--|
| P _D | Power Dissipation | 500 | mW | |
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient | 300 | °C/W | |

Electrical Characteristics T_A=25°C unless otherwise noted

| Symbol | Parameter | Test Conditions | Min. | Max. | Units |
|----------------|-------------------|----------------------------------|------|------|-------|
| V_R | Breakdown Voltage | I _R = 100μA | 150 | | V |
| V _F | Forward Voltage | I _F = 100mA | | 1.0 | V |
| I _R | Reverse Leakage | V _R = 125V | | 25 | nA |
| | | $V_R = 125V, T_A = 150^{\circ}C$ | | 5 | μΑ |

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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.

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