



1S922/1S923



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 | 1S922 | 150 |
| | | 1S923 | 200 |
| I _{F(AV)} | Average Rectified Forward Current | 200 | mA |
| I _{FSM} | Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond | 1.0 | A |
| | | 4.0 | A |
| T _{stg} | Storage Temperature Range | -65 to +200 | °C |
| T _J | Operating Junction Temperature | 175 | °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 _{θJA} | 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 | 1S922 | I _R = 5 μA | 150 | V |
| | | 1S923 | I _R = 5 μA | 200 | V |
| V _F | Forward Voltage | I _F = 200 mA | | 1.2 | V |
| I _R | Reverse Current | 1S922 | V _R = 150 V | 100 | nA |
| | | | V _R = 150 V, T _A = 150°C | 50 | μA |
| | | 1S923 | V _R = 200 V | 100 | nA |
| | | | V _R = 200 V, T _A = 150°C | 50 | μA |



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|--------------------------|------------------------|---|
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