

Zeners 1N5234C

Absolute Maximum Ratings*

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

| Symbol | Parameter | Value | Units |
|-----------|---|-------------|----------------------|
| P_D | Power Dissipation | 500 | mW |
| | Derate above 75°C | 4.0 | mW/ $^\circ\text{C}$ |
| T_{STG} | Storage Temperature Range | -65 to +200 | $^\circ\text{C}$ |
| T_J | Maximum Junction Operating Temperature | + 200 | $^\circ\text{C}$ |
| | Lead Temperature (1/16" from case for 10 seconds) | + 230 | $^\circ\text{C}$ |
| | Surge Power** | 10 | W |

Tolerance: C = 2%



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

**Non-recurrent square wave PW= 8.3 ms, TA= 50 degrees C.

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.

Electrical Characteristics

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

| Symbol | Parameter | Test Conditions | Min. | Max. | Units |
|----------|----------------------|--------------------------|------|------|---------------|
| V_Z | Zener Voltage | $I_Z = 20\text{mA}$ | 6.08 | 6.32 | V |
| Z_Z | Zener Impedance | $I_Z = 20\text{mA}$ | | 7.0 | Ω |
| Z_{ZK} | Zener Knee Impedance | $I_{ZK} = 0.25\text{mA}$ | | 1.0k | Ω |
| I_R | Reverse Current | $V_R = 4.0\text{V}$ | | 5.0 | μA |
| V_F | Forward Voltage | $I_F = 0.2\text{A}$ | | 1.1 | V |

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