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# Zeners 1N5234C

Zeners (1N5234C)

## Absolute Maximum Ratings\*

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

| Symbol    | Parameter                                            | Value       | Units                      |
|-----------|------------------------------------------------------|-------------|----------------------------|
| $P_D$     | Power Dissipation<br>Derate above $75^\circ\text{C}$ | 500<br>4.0  | mW<br>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                          |

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

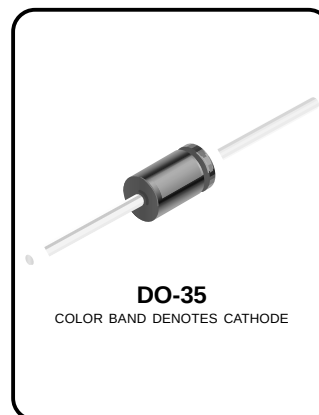
\*\*Non-recurrent square wave PW= 8.3 ms, TA= 50 degrees C.

### 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.

Tolerance: C = 2%



## 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  | $\Omega$      |
| $Z_{ZK}$ | Zener Knee Impedance | $I_{ZK} = 0.25\text{mA}$ |      | 1.0k | $\Omega$      |
| $I_R$    | Reverse Current      | $V_R = 4.0\text{V}$      |      | 5.0  | $\mu\text{A}$ |
| $V_F$    | Forward Voltage      | $I_F = 0.2\text{A}$      |      | 1.1  | V             |

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А