



# Zeners 1N5231C

## Absolute Maximum Ratings\*

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

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation Derate above $75^\circ\text{C}$	500 4.0	mW $\text{mW}/^\circ\text{C}$
$T_{STG}$	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  $PW=8.3\text{ ms}$ ,  $TA=50$  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: B = 2%**



## Electrical Characteristics

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

Symbol	Parameter	Test Conditions	Min.	Max.	Units
$V_Z$	Zener Voltage	$I_Z = 20\text{mA}$	5.0	5.2	V
$Z_Z$	Zener Impedance	$I_Z = 20\text{mA}$		17	$\Omega$
$Z_{ZK}$	Zener Knee Impedance	$I_{ZK} = 0.25\text{mA}$		1.6K	$\Omega$
$I_R$	Reverse Current	$V_R = 2.0\text{V}$		5.0	$\mu\text{A}$
$V_F$	Forward Voltage	$I_F = 0.2\text{A}$		1.1	V

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