



Zener 1N5231C

Zener (1N5231C)

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

*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 = 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	Ω
Z_{ZK}	Zener Knee Impedance	$I_{ZK} = 0.25\text{mA}$		1.6K	Ω
I_R	Reverse Current	$V_R = 2.0\text{V}$		5.0	μA
V_F	Forward Voltage	$I_F = 0.2\text{A}$		1.1	V

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