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Zener 1N5231C

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _D	Power Dissipation	500	mW
	Derate above 75°C	4.0	mW/°C
T _{STG}	Storage Temperature Range	-65 to +200	°C
T_J	Maximum Junction Operating Temperature	+ 200	°C
	Lead Temperature (1/16" from case for 10 seconds)	+ 230	°C
	Surge Power**	10	W

^{*}These ratings are limiting values above which the serviceability of the diode 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.

Tolerance = 2%



Electrical Characteristics T_a = 25°C unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Max.	Units
V_Z	Zener Voltage	$I_Z = 20mA$	5.0	5.2	V
Z _Z	Zener Impedance	$I_Z = 20mA$		17	Ω
Z _{ZK}	Zener Knee Impedance	$I_{ZK} = 0.25 \text{mA}$		1.6K	Ω
I _R	Reverse Current	V _R = 2.0V		5.0	μΑ
V _F	Forward Voltage	I _F = 0.2A		1.1	V

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

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